



TELEPHONE NUMBER,
BANK 852.

ENGLAND

Established in

1859.

AUSTRALASIA - 1885.

TELEGRAPHIC ADDRESS,
"CHEMICUS LONDON."

Registered as a Newspaper.

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JULY 21, 1900.

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AND

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LONDON.

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(REGISTERED)
A Nourishing Meat & Malt Wine.

Strongly recommended by the Medical Faculty in all cases of weakened constitution, and particularly useful in cases of ladies whilst nursing, and delicate children, or in ailments where a stimulating—digestive—tonic—nutrient is indicated.

Dose—A Quarter to Two Ounces twice daily.

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30% to 70%

GENUINE POTASH SALT.

CORROSIVE SUBLIMATE AND ALL PREPARATIONS OF MERCURY.

PURE CHLOROFORM, ETHERS AND COLLODIONS.

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is the time to sell an Alterative, and we commend SYRUP TRIFOLIUM COMPOUND. It has stood the test, having been successfully before the profession for over twelve years. In the formula are embodied Red Clover, Stillingia, Burdock, Poke Root, Berberis Aquifolium, Cascara Amarga, Prickly Ash, with eight grains of Potassium Iodide to the fluid-ounce.

The cumulative action of Potassium Iodide when given alone is well understood, but in the above combination its administration may be prolonged, and the dose gradually increased, without producing gastric or intestinal disturbance.

SYRUP TRIFOLIUM COMPOUND is a splendid blood purifier.

IN PINT BOTTLES.

IN $\frac{1}{2}$ -GAL. BOTTLES.

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Parke, Davis & Company,

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ROBERT GIBSON & SONS, LIMITED, Manchester & London, England,

HAVE PLEASURE IN DRAWING THE ATTENTION OF THE
TRADE TO THEIR NEW AND DELICIOUS

English Fruit Pastilles



PREPARED FROM THE PURE FRUIT.

*Sent out in 4-lb. Counter Show Boxes, with
attractive Labels and Glass Lids.*

PRICE LISTS AND SAMPLES ON APPLICATION TO THE WORKS, MANCHESTER,
Or every Wholesale House in or out of London can supply.

Awards: LONDON, 1881; VIENNA, 1883; CALCUTTA, 1884; CHICAGO, 1893.

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Wholesale Druggists, Manufacturing Chemists.

W^E invite inquiries for the following, and Buyers abroad will find it advantageous to instruct their Agents to apply for **SPECIAL Quotations.**

Tinctures and Spirits in Bond (English).

Our experience in the manufacture and shipment of these goods is probably unrivalled, and we can quote the very best terms for products of standard quality. Special offers will be furnished free of charge, C.I.F. any port, comparing favourably with those of other makers.

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Should communicate with us. Specimen invoices given showing the terms on which we can sell ETHER 720, &c., ANHYDROUS AMMONIA, CALCIUM CHLORIDE, SULPHURIC ACID, FRUIT AND SOLUBLE ESSENCES, OIL OF LEMON (guaranteed purity), &c., C.I.F. any port in the World.

Extracts (solid and liquid), Decoctions, &c.

Our Laboratories are fully equipped with the most modern machinery, and we manufacture such Extracts as CASCARA, SARSAPARILLA, ERGOT, &c., on an extensive scale.

Copaiba Balsam. Good bright Maranham. In Cases of 2 x 40-lb. Tins.

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Guaranteed to answer the B.P. requirements, and to be manufactured under perfect aseptic conditions.

Absolutely non-hygroscopic, free from any disagreeable smell, and will never deteriorate in digestive power with age.

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UNSOLICITED—ONE AMONGST MANY.

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Messrs. ASPINALL & CO., Chemists, Ashton-in-Makerfield,
Lancashire, write as under:—

July 9, 1900.

Dear Sir,—Please send per return 2 gross "Cobweb" Fly
Papers. Postal Order value 10s. enclosed.

Your "**COBWEB**" Fly Papers are, we consider, the
best and stickiest on the market. At the end of last season we had
about one dozen left, and they were put away out of the road, and
at the first inquiry for Sticky Papers at the beginning of this
summer we looked them up, never expecting them to be really
saleable, but we are pleased to say we were agreeably surprised
to find them as sticky and good as ever.

Yours truly,

(Signed) ASPINALL & CO.

~~~~~

English Made ~~~

Hermetically Sealed

Sticky Fly Papers.

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CHRISTY STRONG, READING.

# **"COBWEBS."**

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in reply to inquiry if there was any objection to my making use of Messrs. ASPINALL & CO.'S Testimony, as on opposite page, they reply as follows:—

Every word we have said in favour of "Cobwebs" is certainly quite true. Our customers will have no other kind. Since we commenced selling "Cobwebs" our sales have annually increased, and are yet steadily doing so this year. **"COBWEBS"** are undoubtedly the BEST STICKY FLY PAPER we have ever had to deal with.

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**"COBWEBS" 5s. per gross, Carriage Paid.**

*Cash must accompany order.*

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**SAMPLES FREE.**

**STOCKED BY THE LEADING WHOLESALE HOUSES.**

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**MILLIONS** ~ ~ ~

**Sold Annually.**

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**CHRISTY STRONG, READING.**

## THE GREAT AND MARVELLOUS INSECT DESTROYER.

Entirely different from any other Beetle or Flea Powder.

"VIKO" will kill Cock-roaches.  
"VIKO" will kill Moths.  
"VIKO" will kill Fleas.  
"VIKO" will kill Bugs.  
"VIKO" will kill Mosquitoes.  
"VIKO" will kill Ants.  
"VIKO" will kill all Insects.  
"VIKO" will not kill Dogs.  
"VIKO" will not kill Cats.



"VIKO" as a preventive against Moth is unrivalled. It has no equal. If sprinkled amongst Furs and Clothes instantly destroys any existing Insect Life, and ensures perfect freedom from a return of the pest.

Its effect upon Insect Life is simply marvellous.

REGISTERED.

Sold in 3d., 6d., & 1s. Tins.

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### TUNBRIDGE & WRIGHT, READING.

Manufacturers of the "World-Famed FLY CEMETERY."

TO PREVENT DISAPPOINTMENT, ORDER EARLY.

The World Famous Sticky Fly Paper.

## 'THE FLY CEMETERY'

FREE FROM POISON.

The Original and by far the Best Sticky Fly Paper in the Market.

Annual Sale—MILLIONS.

BEWARE  
OF THE MANY  
SPURIOUS  
IMITATIONS  
IN  
THE MARKET.



STOCK  
A FLY PAPER  
THAT WILL GIVE  
SATISFACTION  
TO YOUR  
CUSTOMERS.

Terms, &c., from

### TUNBRIDGE & WRIGHT, READING.

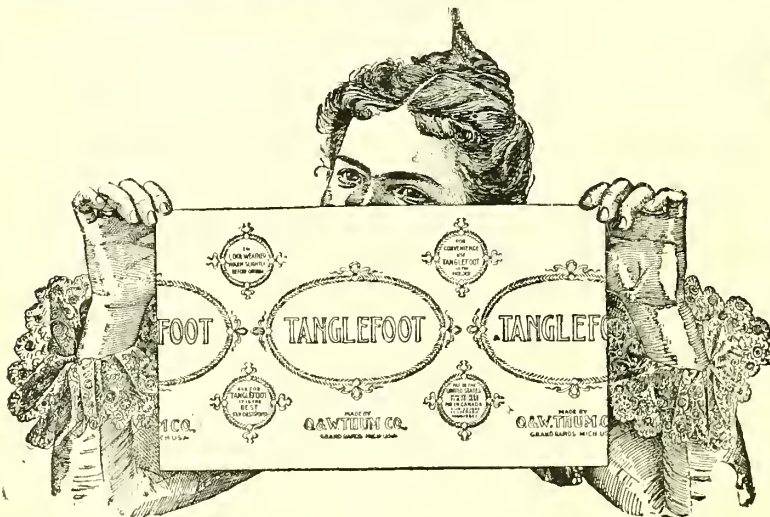
North of England Depot—4 Gallowgate, Newcastle-on-Tyne.

French Agency—84 Rue St. Martin, Cognac.

**IMPORTANT NOTICE.**—If any of our customers have any over year's stock of our Fly Cemeteries on hand, we shall be pleased to exchange same for fresh goods free of cost.

TELEGRAMS—"FLIES READING."

## TRADE ANNOUNCEMENT.



2 Sheets of Tanglefoot sell for 1½d., and are highly profitable.

Nothing rids a house of Flies so quickly as good Sticky Fly Paper and no Fly Paper is so good as

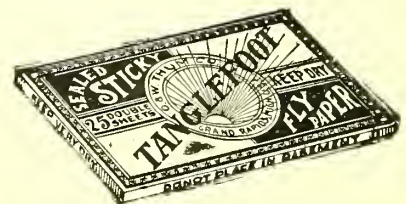
## "TANGLEFOOT" SEALED STICKY FLY PAPER,

The paper that originated every modern idea and feature of Sticky Fly Paper, and made it a profitable and merchantable commodity.

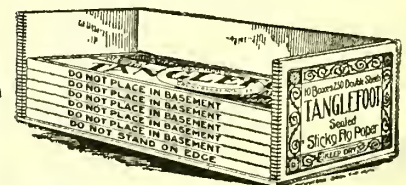
"TANGLEFOOT" is the Paper your Customers prefer, and expect to get, when they ask for Sticky Fly Paper.  
**IT IS NON-POISONOUS.**

OF ALL WHOLESALE HOUSES, OR THE IMPORTERS—

### ALABASTINE CO. (British) LTD., CHURCH ST, SOUTH LAMBETH, LONDON, S.W.



Send us 5s. We send you in return, free, our parcel-post package of 150 sheets.



A Case of Tanglefoot (500 sheets) costs you 15s. Open it, and place it on the shelf ready for sale, like this.  
5 per cent. off on 5-case orders.

**NOTE.**

OUR Bullet  
**FLY CATCHER,**  
like all *Successful*  
inventions, provokes the  
snarl of  
JEALOUS RIVALS.

**DO NOT BE  
INTIMIDATED.**

Send for Sample, your  
Orders will follow.



# THE BULLET

(PROTECTED)

1<sup>D.</sup> **FLY** 1<sup>D.</sup>  
EACH. EACH.

## CATCHER

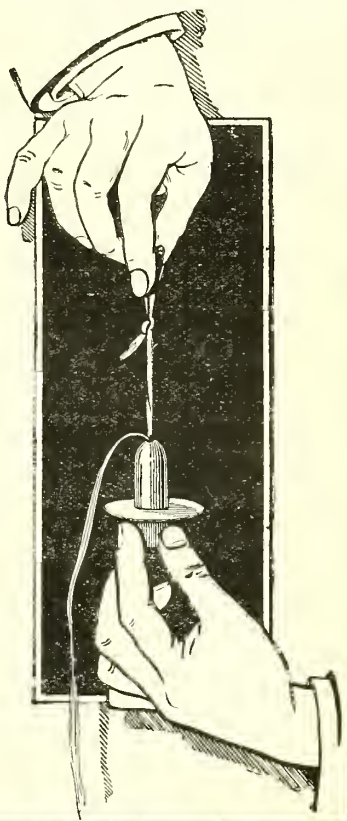
HERMETICALLY SEALED.

**Never Dries Up.**

Packed in  $\frac{1}{2}$ -gross boxes, with Showcards, &c.

PER 6/6 CARRIAGE  
GROSS. PAID.

NO INFRINGEMENT ON ANY EXISTING PATENT  
(but an acknowledged improvement).



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**FATAL FLY DOOMO**

INOFFENSIVE  
CLEANLY

NEATLY  
ROLLED  
AND  
BANDED

**BEST OF FLY PAPERS**

STOCKED BY ALL WHOLESALE HOUSES.

WRITE FOR QUOTATIONS.

Sample Gross, Post Paid, on receipt of P.O. for 5s.

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Photo Dealers and Druggists' Sundriesmen,  
**44 CHARTERHOUSE STREET, E.C.**  
(Three Minutes only from Aldersgate and Farringdon Stations.)  
**Show Room on Ground Floor.**

The Warmer Weather is coming, and Customers are now  
booking their orders for the

## "NEWGATE" STICKY FLY PAPERS

Per Gross, 4/6.

These Sticky Fly Papers have had two successful seasons,  
and have caught on.  
Many Testimonials have been sent to us by Chemists who  
have sold them.

## "NEWGATE" STICKY FLY PAPERS

Do not Stick in Stock, as they **SELL  
SO FREELY.**

We are also ready to supply the 1d. Ellis's  
Fly Cage, the 1d. Diamond Fly Catcher, the  
1d. Bullet Fly Catcher, "Cobwebs," "Grips,"  
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Chemists' & General Printers, Lithographers, Engravers, &c.

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PRICE LISTS, PAMPHLETS, CIRCULARS, BILLHEADS, MEMORANDUMS, CARDS,  
*And all kinds of Printing and Stationery required by Chemists, at most Moderate Prices.*

## STICKY FLY PAPERS

In two sizes, to sell at  $\frac{1}{2}$ d. and 1d. each. Prices on application.

## Also CHEMICAL FLY PAPERS,

Guaranteed to be thoroughly effectual; printed with own Name and Address and Advertisements ON THE FOUR SIDES.

1,000, 16s.; 2,000 at 15s.; 3,000 at 14s.; 5,000 at 13s.; 10,000 at 12s.

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SPECIALLY DESIGNED FOR CHEMISTS' ADVERTISING.

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Plain or Printed in Choice Designs  
for putting up Specialities.

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CABINET PAPER for the Water Closet, in Registered Shape Boxes and in Packets.

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6 GREAT TURNSTILE, HIGH HOLBORN, LONDON, W.C.



OF HONOUR  
GOES TO THE

## 'Butterfly' Gum PAPERS.

Have you tried these?  
Have you noted the Price?

Carriage Paid, 1 gross 4/6; 5 gross 21/-,  
ON RECEIPT OF P.O.

SEND FOR FREE SAMPLES TO  
THE WESTERN PHARMACIES CO., YEOVIL.

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MAW, SON & THOMPSON, Aldersgate St., LONDON.

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FOR CATCHING



BIRDS,  
RATS,  
MICE,  
BEETLES,  
FLIES, &c.

In Sealed  
Decorated Tins  
(as illustrated),  
OR

In BULK 1, 2, 3, or 7 lb. Tins or Casks.

## THE "VAMPIRE"

## SPIRAL FLYCATCHER

(GREATLY IMPROVED THIS SEASON).

The Best Flycatcher in the Market.

**SEND FOR SAMPLES.**

## ALL FLYPAPER MATERIALS.

Soluble Sanitary Fluid

DISINFECTANT POWDER, &c.

KAY BROTHERS LIMITED, Stockport.

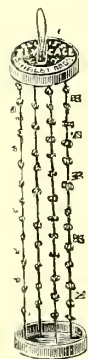


# INSECT POWDER

(DALMATIAN).

Imported Direct, & STOCKS KEPT, by **CHAS. WINDSCHUEGL & CO., 1 LEADENHALL ST., LONDON, E.C.**

*Castor Oil. Nut Oil. Olive Oil. Cocoanut Oil. Sesame Oil. Cotton Oil. Mineral Oils (of every description).*



## ELLIS'S FLY CAGE PATENT.

The Finest FLY TRAP in the World.

Clean and Simple. Illustration speaks for itself.  
PACKS QUITE FLAT. IMPORTANT FOR EXPORT

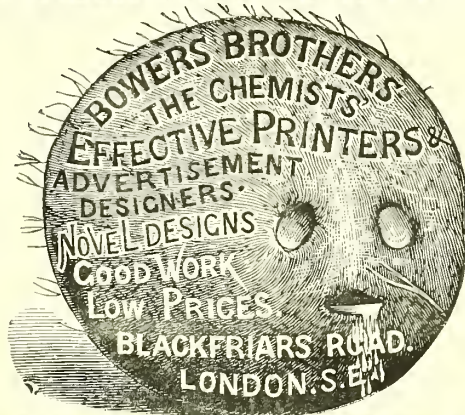
7/- Gross;  $\frac{1}{2}$ -gross in a box.

Nearly 5 ft. of Fly Gum.

**SPECIAL QUOTATIONS FOR QUANTITY.**

To be procured solely from

**SHIRLEY BROTHERS, Whitecross Works, LONDON, S.E.**



# BOXES

ESTABLISHED  
1839

ROUND, OVAL, SQUARE, or FOLDING, for the  
**DRUG, DRYSALTERY, AND CONFECTIONERY TRADES.**

LABELS, WHEN PRINTED TO OUR INSTRUCTIONS, WE PUT ON PILL  
AND OTHER BOXES FREE OF CHARGE.

## BOXES AND CASES FOR

Baking Powder, Black Lead, Bottles, Camphor Ball, Capsules, Castor Oil, Cough Lozenges, Dispensing Powder, Eye Ointment, Fancy Boxes, Fuller's Earth, Folding Boxes, Glass Top Outers, Homœopathic Bottles, Insect Powders, Ink Cases, Jewellery, Lozenge, Lip Salve, Magnesia, Metal Paste, Marking Ink, Nipple Shields, Night Lights, Parcel Post, Pastilles, Pills, Potash Tablets, Plasters, Salt Lemon, Seidlitz Powder, Starch Gloss, Soaps, Soda Powder, Syringes, Tapers, Tooth Powder, Violet Powder, &c.

**ROBINSON & SONS, LIM., WHEATBRIDGE MILLS & CHESTERFIELD,**  
**HOLMBROOK WORKS,**  
And 55 FANN STREET, ALDERSGATE STREET, LONDON.

# IZAL

## Disinfectant (Non-Poisonous.)

### Non-Corrosive. Non-Irritant.

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"The Disinfectant, used in the strength of 1 in 200, completely destroys in five minutes the vitality of the microbes of cholera, diphtheria, influenza, erysipelas, typhoid fever, &c."—See BACTERIOLOGICAL REPORT.

**HER MAJESTY'S WAR OFFICE,**  
Recognising the superiority of Izal, are using no other disinfecting fluid in the

**SOUTH AFRICAN CAMPAIGN** (See the *Times*, November 30, 1899.)

The quantity ordered is sufficient to make over  
**11,000,000 gallons reliable germicide.**

Izal is ideal for Obstetrical work. In the Official Report on Calcutta Medical Institutions for 1898 the following passage occurs: "The obstetric physician writes: 'The small number of deaths among patients that were admitted septic but confined inside the hospital is a noticeable fact. It may be mentioned here that nothing but Izal lotion was used for all these cases as for all other obstetrical purposes.'"

***Izal Fluid. Izal Powder. Izal Soaps.***  
***Izal Medical Preparations. Izal Toilet Preparations.***  
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**NEWTON, CHAMBERS & CO., LTD.,**  
**THORNCLIFFE, near SHEFFIELD.**

# SACCHARIN



**"TIGRESS BRAND."**



## ***Another Victory***

For the **ANGLO-CONTINENTAL CHEMICAL WORKS, LIMITED.**

---

On the 6th instant, Mr. Justice COZENS-HARDY dismissed, with costs, the action of the SACCHARIN CORPORATION v. ROBERT REITMEYER, Managing Director of the Anglo-Continental Chemical Works, Ltd.

His Lordship said :

**"In my judgment the Plaintiffs' (Saccharin Corporation's) action wholly fails, and I must dismiss it, with costs !"**

---

**THE ANGLO-CONTINENTAL CHEMICAL WORKS,**  
LIMITED,

1 & 2 Rangoon Street, Crutched Friars, LONDON, E.C.

**And at MANCHESTER.**

# ICILMA.



These elegant Toilet Specialities are on the protected list of the P.A.T.A., and allow a satisfactory living profit to dealers, Wholesale and Retail.

SOLE WHOLESALE CONSIGNEES—

BARCLAY & SONS, Limited, 95 Farringdon Street, E.C.

Venus P.O.P. Venus P.O.P. Venus P.O.P.

THE NEW ARTISTIC PRINTING-OUT PAPER.

***A Large and Comprehensive stock of  
Leading Plates and Papers always on  
hand at makers' prices.***

**KODAK GOODS AT MAKERS' PRICES.**

Monroe, Pecto, Korona, Ray, and other Cameras  
at Makers' Prices.

Central Wholesale Depot for Druggists' Sundries, Patent Medicines, and  
Photographic Apparatus and Materials.

BARCLAY & SONS, Limited, 95 Farringdon Street, E.C.

Telephone Number, Bank 852.

Telegraphic Address—CHEMICUS LONDON.

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| Exchange Column                 | Col. Supp. |                                 |        |                                     |        |                                 |        |

## CLASSIFIED LIST OF ALL ADVERTISERS

Whose Announcements appear in "THE CHEMIST AND DRUGGIST." Those whose Names do not appear in the preceding Index are published in one of the other Issues of this month.

|                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ADVERTISING SPECIALITIES</b><br>Corsan, J. R.<br>Sharland & Co.                                                                                                                                                                                                                                                        | <b>BATH SALTS</b><br>Tidman & Son, Lim. (Sea Salt)                                                                                                                                                                                                                                                                                 | <b>BRUSHES</b><br>Evans, Sons & Co.<br>Hovenden & Sons<br>Kent, G. B., & Son<br>Moseley, D., & Sons                                                                                                                                | <b>CASTOR OIL</b><br>Hull Oil Mfg. Co., Lim.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>CHLORODYNE</b><br>Davenport (Browne's)                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AERATED &amp; MINRLS</b><br>Apollinaris Co., Lim.<br>Barnett & Foster<br>Burrows, W. & J.<br>Camwal, Lim.<br>Davy, Hill & Son, Yates & Hicks<br>Ellis & Son (Ruthim)<br>Idris & Co. (Lim.)<br>Ingram & Royle, Lim.<br>Jewsbury & Brown<br>Kilmind & Co.<br>Mills & Co. (Bourne)<br>Salutaris Water Co.<br>Wilcox & Co. | <b>BENZINE</b><br>Jackson, T.                                                                                                                                                                                                                                                                                                      | <b>CACHETS</b><br>Christy, T., & Co.<br>Cooper & Co.<br>Sangers, J., & Son                                                                                                                                                         | <b>CHALK, PRECIP.</b><br>Levermore, Aug., & Co.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>COCA WINE</b><br>Burrough, J.<br>Evans, Lescher & Webb<br>Holloway Wine Co., Lim.<br>Stephen Smith & Co., Lim.<br>(Hall's)<br>Wilcox & Co., Lim.                                                                                                                                                                                                                                                                  |
| <b>AERATED PLANT</b><br>(See SYPHONS and ESSENCES)<br>Barnett & Foster<br>Matthews, John, Apparatus Co.<br>Tyler, Hayward, & Co.                                                                                                                                                                                          | <b>BICARB. SODA</b><br>Brunner, Mond & Co. Lim.<br>Howards & Sons<br>May & Baker, Lim.                                                                                                                                                                                                                                             | <b>CACHOUS</b><br>Allen & Hanburys, Lim.<br>Bleasdale & Co., Lim.<br>Denoual, J., & Co.<br>Jackson, T.<br>Lloyd, T. H., & Co.<br>Raines & Co.<br>Warrick Bros.                                                                     | <b>CHECK TILLS</b><br>British Machine Co., Lim.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>COCOA &amp; CHOCOLAT</b><br>Cadbury Bros.<br>Fry & Sons<br>Van Houten<br>Vi-Cocoa (Dr. Tibbles')                                                                                                                                                                                                                                                                                                                  |
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| <b>ANNATTO</b><br>Baker, J. W.<br>Crawshaw, E., & Co.                                                                                                                                                                                                                                                                     | <b>BOTTLES POTS, &amp;c.</b><br>Ayrton & Saunders<br>Barnett & Foster<br>Barrett, R. H.<br>Gibbertson, H., & Sons, Lim.<br>Hearns, Lim.<br>Isaacs & Co., J. Kilner Bros.<br>Lynch & Co., Lim.<br>Maw, S., Son & Thompson<br>Poths, H., & Co.<br>Stipendium Stopper Co., Lim.<br>Taylor, F. H., & Co.<br>Toogood, W.<br>Youldon, E. | <b>CARBOLIC ACID</b><br>Baiss Bros. & Stevenson<br>Calvert & Co.                                                                                                                                                                   | <b>CHLORIDE OF LIME</b><br>Hebden, W. C.<br>Steele, J. C., & Co.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>COMP. MEDICINES</b><br>Allen & Hanburys<br>Burroughs, Wellcome & Co.<br>Keene & Ashwell<br>Leo & Co.<br>Lloyd, T. Howard, & Co.<br>Parke, Davis & Co.                                                                                                                                                                                                                                                             |
| <b>APPARATUS</b><br>Bennett, Sons & Shears<br>Cog, Harry W., Lim.<br>Southall Bros. & Barclay<br>Woolley, J., Sons & Co.                                                                                                                                                                                                  | <b>BOXES</b><br>Austin & Co. (Cardboard)<br>Bentley, J.<br>Evans, Sons & Co.<br>Kent, G. B., & Son<br>Robinson & Sons<br>Timplat Decorative Co.                                                                                                                                                                                    | <b>CARRIER TRICYCLES AND HANDCARTS</b><br>Rothschild & Baker                                                                                                                                                                       | <b>CHLOROFORM</b><br>Duncan, Flockhart & Co.<br>Macfarlan, J. F., & Co.<br>Smith, T. & H., & Co.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>CONCENT. LIQUORS</b><br>Baiss Bros. & Stevenson<br>Fletcher, Fletcher & Co.<br>Lloyd, T. Howard, & Co.<br>Robinson, B.                                                                                                                                                                                                                                                                                            |
| <b>BEESWAX</b><br>Beeswax Co., Lim.<br>Woodward, W. H., & Co.<br>Evans, Sons & Co.                                                                                                                                                                                                                                        | <b>BUTTER COLOUR, &amp;c.</b><br>Baker, J. W.<br>Crawshaw, E., & Co.<br>Tomlinson & Hayward                                                                                                                                                                                                                                        | <b>CASCARA SAGRADA</b><br>Duncan, Flockhart & Co.<br>Evans, Lescher & Webb<br>Farris & Co.<br>Galen Manufacturing Co., Lim.<br>Harker, Stagg & Morgan<br>Parke, Davis & Co.                                                        | <b>COCAINE-HYDRO.</b><br>Boehringer, C. F., & Soehne<br>Howards & Sons<br>Merck, E.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                      |

**CONFECTIONERY**

Gibson & Sons  
Guest, T., & Co.  
Hillbys, Lim.

**CORKS**

Kingrose & Cobb

**CRUSHED LINSEED**

Mumford, G. S.

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Hovenden & Sons  
Jewsbury & Brown  
Mason, C. E., & Co.  
Stevens, P. A.  
Sutton, O., & Co.  
Woods, W. (Areca Nut)

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Brown, A. J.  
Fentiman, A. J., & Co.  
Spencer & Son

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Chincol Hygienic Co., Lim.  
Dusseck Bros.  
Fletcher Bros. & Co.  
Hebden, W. C.  
Izal  
Kay Bros., Lim.  
Kühn, E. (Chincol, Kresochine)  
Mackey, Mackey & Co.  
Major & Co., Lim.  
May & Baker, Lim.  
Mayor, Geo., & Co.  
Sanitas Co., Lim.  
Steele, J. C., & Co.  
Tomlinson & Hayward  
Tyler, T., & Co., Lim.

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Gibbison, J. H., & Co.  
Lloyd, T. Howard, & Co.  
Naldire's Dog Soap  
Spratt's Patent, Lim.

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Barclay & Sons, Lim.  
Bleasdale & Co., Lim.  
Burgie, Warren & Ridley  
Dailley & Wilkinson  
Denoual, J., & Co.  
Evans, Lescher & Webb  
Evans, Sons & Co. (Savars)  
Fassett & Johnson  
Fordham, W. B., & Sons, Lim.  
Gibbertson, H., & Sons, Lim.  
Hovenden & Sons  
Kay Bros., Lim.  
Kühn, E.  
Marshall, Lim.  
Maw, S., Son & Thompson  
May, Roberts & Co.  
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Parkes, J., & Co.  
Quelch, H. C.  
Roberts & Sheppey  
Sanger & Sons  
Schutze & Co.  
Shirley Bros.  
Solport Bros.  
Southall Bros. & Barclay  
Tidman & Son  
Toogood, W.  
Wood, Vincent  
Woolf, E.

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Elliman, Sons & Co.  
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Post, A. M., Lim.  
Sanitas Co., Lim.

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Evans, Sons & Co.  
Lynch & Co., Lim.  
Newbery, F., & Sons  
Sanger & Son  
Wood, Vincent  
Woolley, J., Sons & Co., Lim.

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Baiss Bros. & Stevenson  
Barnett & Foster  
Bush, W. J., & Co.  
Corio, F. A.  
Evans, Sons & Co.  
Hornor & Sons  
Jeanard, Gazan & Doumin  
London, Essence Co.  
May & Baker, Lim.  
Poppelreuter, W.  
Quelch, H. C.  
Ransom, Wm., & Sons  
Raynaud, Claude, & Co.  
Sanitas Co., Lim.  
Sozio & Andrioli  
Stevenson & Howell  
Warrick Bros.  
Wilkinson & Simpson, Lim.

**ESSENCES**

Allen & Hanbury, Lim.  
Barrett & Foster  
Burgoyne, Burdidge & Co.  
Bush, W. J., & Co., Lim.  
Fletcher, Fletcher & Co.  
Goodall, Backhouse & Co.  
Hay, Wm., Lim.  
May & Baker, Lim.  
Newball & Mason  
Stevenson & Howell  
Woolley, J., Sons & Co., Lim.

**ETHER**

Duncan, Flockhart & Co.  
Howards & Sons  
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Sharland & Co.  
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Nelson, G., Dale & Co., Lim.

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Bleasdale & Co., Lim.  
Burgoyne, Burdidge & Co.  
Evans, Sons & Co.  
Fletcher, Fletcher & Co.  
Hearon, Squire & Francis  
Lloyd, T. Howard, & Co.  
Merck, E.  
Parke, Davis & Co.  
Potter & Clarke  
Ransom, W., & Son  
Wilkinson & Simpson, Lim.

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Nelson, G., Dale & Co., Lim.  
Ransom, W., & Son

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Evans, Sons & Co.  
Gibbertson, H., & Sons, Lim.  
Burgie, Warren & Ridley  
Kilner Bros.  
Lynch & Co., Lim.  
Maw, S., Son & Thompson  
May, Roberts & Co.  
Taylor, S. C., & Co.  
Youldon, E.

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Derries, J., & Sons

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Chameleon Patents Mfg. Co., Lim.  
Ford, Shapland & Co.  
Goddon, Lim.  
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Marshall, Lim.  
Mather, W. Lim.  
Maw, S., Son & Thompson  
Newbery, F., & Sons  
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Tunbridge & Wright  
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Bleasdale & Co., Lim.  
Bovril, Lim.  
Brand & Co.  
British Somatose Co., Lim.  
Burgoyne, Burdidge & Co.  
Coombs Flour Co., Lim.  
Cosenza & Co.  
"Feroval," Squire's  
Frame Food Co.  
Goodall, Backhouse & Co.  
Hearon, Squire & Francis  
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Liebig Co.  
Nelson, G., Dale & Co., Lim.  
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Parke, Davis & Co.  
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Ridge, Dr.  
Savory & Moore  
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Munyon & Wates

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Fellows  
Fletcher, Fletcher & Co.  
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May, John

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Krohn & Sesemann  
Kühn, B.  
Lynch & Co., Lim.  
Munyon's H. H. R. Co.  
Newsholme, G. T. W.

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Fleming's Oil & Chemical Co.  
Lim.  
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Keating, T.  
Tunbridge & Wright  
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Lloyd, T. Howard, & Co.  
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Burdigues, Wellcome & Co. (kepler's)  
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Johnson's Saccharum Co., Ld.  
Malt Diastase Co.  
Parke, Davis & Co.  
Price's Patent Candle Co., Ld.  
Raines & Co.  
Raines, Clark & Co.

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Tyler, T., & Co., Lim.

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Burdigues, J. Lim.  
Jones & Co. | Phillips, G., & Co.

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Smith, T. & H., & Co.

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Pinchin, Johnson & Co.  
Stern Bros. (White)

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Burdigues, Wellcome & Co. (Lanoline)  
Chesbrough Co. (Vaseline)  
Lloyd, T. Howard, & Co.  
Resinol Chemical Co.

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Hubbuck, T., & Son, Lim.

**PALATINOLIDS**

Oppenheimer, Son & Co., Lim.

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Chapman, J. C., & Co.  
Trade Mark Protection Society

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Edgar's Croup Lotion  
Edwards & Son  
Evans, Lescher & Webb  
Evans, Sons & Co.  
Fenning (Powders)  
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Holloway (Pills and Oint.)  
Hovenden & Sons  
Lageman, C.  
Lalor (Phosphodyne, &c.)  
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Newbery, F., & Sons  
Paris Medicine Co.  
Porter, J., & Son  
Post, A. M., Lim.  
Powell, Thomas, Lim.  
Richards, J. M.  
White, A. J., Lim.

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Ransom, W., & Son  
Stevenson & Howell

**PEPSIN, &c.**

Armour & Co.  
Baiss Bros. & Stevenson  
Burdigues, Wellcome & Co.  
Cerebros Limited (Pepsalia)  
Fairchild Bros. & Foster  
Parke, Davis & Co.

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Barclay & Sons, Lim.  
Bleasdale, Lim.  
Blondeau & Cie  
Burgoyne, Burdidge & Co.  
Busi, W. J., & Co.  
Chesbrough Co.  
Cook, E., & Co., Lim.  
Coryn, Stacey & Co.  
Evans, Sons & Co.  
Farina, J. M.  
Goerz C. P.  
Greenhill & Son  
Grossmith, Sons & Co.  
Hovenden & Sons  
London Essence Co.  
London Perfumery Co.  
Marshall, S. Lim.  
Mason, C. E., & Co.  
Mullens, F.  
Newbery, F., & Sons (St. Paul's)  
Parkes, J., & Co.  
Pears, A. & F. Lim.  
Potter & Clarke (Sachets)  
Quelch, H. C.  
Raynaud, Claude, & Co.  
Roberts & Sheppey  
Sainsbury, S.  
Sanger, J., & Sons  
Schutze, F., & Co.  
Van Oppen & Co.  
Vigo, Jules & Co., Lim.  
West, T. (Okell's Moma)

**PEROX. OF HYDR.**

May & Baker, Lim.  
Robbins & Co.  
Sanitas Co., Lim.  
Tyler, T., & Co., Lim.

**PHOTOGRAPHIC****X RAY, &c.**

Barclay & Sons, Lim.  
Burdigues, Wellcome & Co.  
Butcher, W., & Son  
Cox, H. W., Lim.  
Dartton, F., & Co.  
Evans, Sons & Co.  
Harrington Bros.  
Houghton, G., & Son  
Lockyer, J. E.  
Lowe, H., & Co.  
Mackey, Mackey & Co.  
Merck, E.  
Newbery, F., & Sons  
Raphael, J., & Co. | Ross Lim.  
Saunders, Alfred W.  
Seabrook Bros. & Co.  
Shew & Co.  
Townsend, J., & Son  
Tyler, T., & Co.  
White, Alfred & Sons  
Woolley, J., Sons & Co., Lim.

**PESSARIES**

Rendell, J. W.

**PTRLEUM JELLY, &c.**

Allen & Hanbury  
Christy, T., & Co.  
Dee Oil Co., Lim.  
Hatrack, James L., & Co.  
Snowdon, Sons & Co., Ld. (Jelly)  
Stern Bros.

**PHARM. PREPS.**

Allen & Hanbury  
Armour & Co.  
Baiss Bros. & Stevenson  
Barron, Harveys & Co.  
Boehringer, C. F., & Sohne  
British Somatose Co., Lim.  
Burgoyne, Burdidge & Co.  
Burdigues, Wellcome & Co.  
Davies, Gibbins & Co.  
Duncan, Flockhart & Co.  
Evans, Gadd & Co.  
Evans, Lescher & Webb  
Evans, Sons & Co.  
Fairchild Bros. & Foster  
Fassett & Johnson  
Ferris & Co.  
Fletcher, Fletcher & Co.  
Hearon, Squire & Francis  
Hewlett & Son  
Howards & Sons  
Kirby, H. & T., & Co., Lim.  
Kuhntal, W.  
Lageman, C.  
Lambert Phar. acal Co.  
Lothhouse & Saltmer  
Macfarlan, J. F., & Co.  
Mackey, Mackey & Co.  
Martindale, W.  
May & Baker, Lim.  
Merck, E.  
Merrell, Wm. S., Chemical Co.  
Oppenheimer, Son & Co., Lim.  
Parke, Davis & Co.  
Potter & Clarke, Lim.  
Smith, T. & H., & Co.  
Squire & Sons  
Stern Bros.  
Tyler, T., & Co., Lim.  
White, Alfred & Sons  
Wilcox & Co.  
Wilkinson & Simpson, Lim.  
Wibbys, Francis, Butler & Thompson  
Woolley, Sons & Co., Lim.  
Wyley's, Lim.  
Zimmer & Co.

**PILL MACHINES**

Bennett, Sons & Shears, Lim.  
Pindar, J. W.

**PILLS, Coated, &c.**

Allen & Hanbury, Lim.  
Beecham, T. (Thous)  
Bleasdale & Co., Lim.  
Cox, Arthur H., & Co.  
Davies, Gibbin & Co.  
Davy, Hill & Son, Yates  
Hills  
Duncan, Flockhart & Co.  
Evans, Gadd & Co.  
Hearon, Squire & Francis  
Holloway, Professor  
Kearsley, C. & Co., Lim.  
Kirby, H. & T., & Co., Lim.  
Lloyd, T. Howard, & Co.  
McKesson & Robbins  
Parke, Davis & Co.  
Scottish sugar-coated Pill Co.  
Ward, S. (Pearl Coated)  
Warner, W. R., & Co. (Coated)  
Wyley's, Lim.

**PLASTERS**

Bledersdort, P., & Co.  
Chesbrough Mfg. Co.  
De St. Dalmas, A.  
Evans, Sons & Co.  
Mather, W., Lim.  
Seabury & Johnson  
Solport Bros. (Court)

**POLISHING**

Bradley & Bourdas (Albatum)  
Fordham, W. B., & Sons, Lim.  
Oakley, J., & Sons, Lim.  
Raines & Co. (Stockton)

**PRINTING**

Bowers Bros.  
Bowles & Co.  
Corsan, J. F. (Glass)  
Ford, Shapland & Co.  
Harrison & Waide  
Silverlock, H.  
Townsend, J.

**QUININE**

Boehringer, C. F., & Sohne  
Howards & Co.  
Imperial Quinine Co.  
Zimmer & Co.

**RENNET**

Duncan, Flockhart & Co.  
Tomlinson & Hayward

**RUBBER STAMPS**

Bond, J. (Crystal Palace)  
Richard, E. M.

**SACCHARIN**

Anglo-Continental Chemical  
Works, Lim.  
Saccharin Corporation, Lim.

**SALICIN**

Macfarlan, J. F., & Co.  
Smith, T. & H., & Co.

**SAUCES, PICKLES**

Goodall, Backhouse & Co.

**SEA SALT**

Tidman & Son, Lim.

**SCHOOLS. &c.**

Edinburgh Central School  
Glasgow School (J. Lochian)  
Imperial College (Davis, F.)  
Leeds College of Pharmacy  
Liverpool School  
London College  
London College of Pharmacy  
for Ladies  
Manchester Col. of Pharmacy  
Metropolitan Col. of Pharmacy  
North of England School  
Northern College of Pharmacy  
Royal Dispensary (Edinburgh)  
Sheffield College of Pharmacy  
South London School of  
Pharmacy, Lim.  
West of Scotland College  
Westminster College

**SEEDS**

Potter & Clarke

**SELTZOGENES**

Geraut, E., & Co.  
Thessier, E.

**SHAVING**

Hovenden & Sons (Euxesis)  
Lloyd, A., & Co. (A. S. Lloyd's  
Euxesis)  
Shavo Shaving Cream Co.

**SHEEP DIP**

Croper, W. L., & Nephews  
Fletcher Bros. & Co.  
Sanitas Co., Lim.  
Tomlinson & Hayward

**SHOP FITTERS**

Alstrom, C.  
Ayrton & Saunders  
Bowling & Govier  
Bygrave, J. & W.  
Ehison, F. E., & Co., Lim.  
Evans, Sons & Co.  
Howlett, S., & Son  
Josephs, Philip & Son  
Maw, S., Son & Thompson  
Parnall & Sons, Lim.  
Trebble, G., & Son

**SOAP**

Allen & Hanburys, Lim.  
Ayrton & Saunders  
Bromley, H., & Co.  
Calvert, W. C., & Co.  
Cook, E., & Co.  
Gibbs, D. & W. (Medicated)  
Mühens, F.  
Pears, A. & F., Lim.  
Resinol Chemical Co.  
Sanitas Co., Lim.  
Vinolia Co., Lim.

**SIZE**

Meggett, S., & Sons, Lim.

**SKINS**

Bourgeois, E.

**SPECTACLES, &c.**

Botwright & Grey  
Dartton, F., & Co.  
Raphael, J., & Co.

**SPONGES**

Cohen, L. & M.  
Cresswell Bros. & Schmitz  
Phillips, J., & Sons

**STERILIZERS**

Hawksley, T. (Milk)

**STOPPERS**

Austin & Co. (Sprinklers)  
Barnett & Foster  
Melin, C.  
Mineralized Rubber Co.  
Spendum Stopper Co., Lim.

**STOVES**

Clark, S., & Co., Lim.

**SUGAR**

Macfie & Sons

**SURGICAL**

Bailey, W. H., & Son  
Barclay & Sons, Lim.  
Beckford, P., & Co.  
Burgoyne, Burdidges & Co.  
Dartton, Gibbs & Co.  
Davol Rubber Co.  
Domen Bells Co.  
Eschmann Bros. & Walsh  
Fassett & Johnson  
Ferris & Co.  
Findlay, John J., & Co.  
Glen Manufact'g Co., Lim.  
Gilbertson, H. & Sons, Lim.  
Haywood, J. H.  
Krohn & Sesemann  
Liverpool Patent Lint Co.  
Lynch & Co., Lim.  
Macfarlan, J. F., & Co.  
Marvel Whirling Spray Co.  
Maw, S., Son & Thompson  
Oppenheimer, Son & Co., Lim.  
Powell & Barstow  
Quelch, H. C.  
Robinson & Sons  
Sanitary Wood Wool Co., Lim.  
Schutze, F., & Co.  
Spongipiline  
Wood, Vincent

**SYRUPS**

Beckett, W., Sons & Co.  
Fletcher, Fletcher & Co.  
Stevenson & Howell

**SYPHONS**

Barnett & Foster  
Camwall, Lim.  
Geraut, E., & Co.  
Idris & Co., Lim.  
Kilner Bros. | Melin, C.

**TABLETS**

Corsan, J. R. (Advertising)  
Lambert, A., & Co.  
Roberts & Sheppy

**TEA**

Thomas, O., & Co.  
Tower Tea, Lim.

**TEETHING PADS**

Barclay & Sons, Lim.  
Cartwright, A. S.

**THERMOMETERS**

Bailey, W. H., & Son  
Comitt, O., & Son, Wells &  
Lyon, Lim.  
Dartton, F., & Co.  
Pastorelli & Rapkin

**TINCTURES**

Evans, Sons & Co.  
Howlett, C. J., & Son  
Lloyd, T. Howard, & Co.  
Parke, Davis & Co.  
Southall Bros. & Barclay, Lim.  
Wyleys, Lim.

**TOBACCO & CIGARS**

Barclay & Sons, Lim.  
Oakes Bros. & Co.  
Singleton & Cole, Lim.

**TOILET**

Allen & Hanburys, Lim.  
Ayrton & Saunders  
Barker, F., & Son  
Burroughs, Wellcome & Co.  
(Lanoline)  
Crown Crystalline Co.  
Dee Oil Co., Lim.  
Hovenden & Sons  
Lynch & Co., Lim.  
Major & Co., Lim.  
Marshall's, Lim.  
Maw, S., Son & Thompson  
Moseley, D., & Sons  
Newbery, F., & Sons  
Quelch, H. C.  
Sanitas Co., Lim.  
Solport Bros.  
Southall Bros. & Barclay  
Squire & Sons  
Tidman & Son, Lim.  
Townsend, J. (Taper)  
Vinolia Co., Lim.

**TINS**

Shirley Bros.  
Tinplate Decoration Co., Lim.

**TOOTH PASTE**

Beecham, T.  
Beiersdorf, P., & Co.  
Jewsbury & Brown  
Maw, S., Son & Thompson  
Parke, Davis & Co.  
Sutton, O., & Co.  
Woods, M. (Arca)

**TRADE MARK AGENTS**

Barker, Reginald W.  
Chapman, J. C., & Co.  
Trade Mark Protection  
Society

**VACCINATION**

Maw, S., Son & Thompson  
Vaccine Association (Lymph)

**VALUERS AND  
TRANSFER AGENTS**

Ayrton & Saunders  
Berdoe & Co.  
Brett, F. J.  
Judd & Manners  
Orridge & Co.  
Shacklady, J.  
Tomlinson, Thos., & Son

**VANILLA**

Pavia, F.

**VASELINE**

Chesebrough Co.

**VETERINARY**

Corry & Co., Lim.  
Day & Sons  
Day, Son & Hewitt  
Elliman, Sons & Co.  
Harvey & Co.  
Lloyd, T. Howard, & Co.  
Pettifer, Stephen & Sons  
Sanitas Co., Lim.  
Spratt's (Dogs)  
Walker, Troke & Co.

**VINOLIA Superfatted**

Vinolia Co., Lim.

**VINEGAR**

Grimble & Co.  
Gulliver, S., & Co., Lim.

**WEED KILLER**

Acme Chemical Co., Lim.  
Fletcher Bros. & Co.  
Smith & Co., Lim.  
Tomlinson & Hayward

**WHOLESALE & EXPT  
DRUGGISTS**

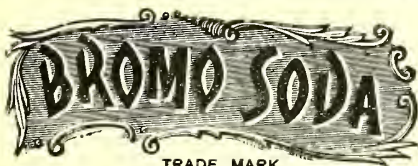
Allen & Hanburys  
Allen, S., & Son  
Baiss Bros. & Stevenson  
Barron, Harveys & Co.  
Bleasdale & Co., Lim.  
Burgoyne, Burdidges & Co.  
Bush, W. J., & Co.  
Corbyn, Stacey & Co.  
Davies, Gibbins & Co.  
Davy, Hill & Son Yates & Hicks  
Evans, Gadd & Co.  
Evans, Sons & Co.  
Evans, Lecher & Webb  
Ferris & Co.  
Goodall, Backhouse & Co.  
Harker, Stagg & Morgan  
Hearon, Squire & Francis  
Hewlett & Son  
Kemp, Wm., & Son  
Lloyd, T. Howard, & Co.  
Lothouse & Saltner  
London Essence Co.  
Macfarlan, J. F.  
Potter & Clarke  
Raimes & Co.  
Raimes, Clark & Co.  
Smith, B. A., & Co.  
Taylor & Colledge  
Willows, Francis, Butler  
Thompson  
Woolley, Jas., Sons & Co.  
Wyleys, Lim.

**WINES, SPIRITS,****BEER, &c**

Baiss Bros. & Stevenson  
Bowen & McKechnie  
Burrough, J.  
Coleman & Co., Lim.  
Fletcher, Fletcher & Co.  
French Hygienic Society  
Goodall, Backhouse & Co.  
Holloway's Wine Co., Lim.  
Millar, A., & Co. (Orange)  
Phillips, G., & Co.  
Robinson, B. (Orange)  
Smith, S., & Co., Lim. (Orange)  
Wilcox & Co., Lim.  
Wright, F., Mundy & Co.  
Wyleys, Lim.

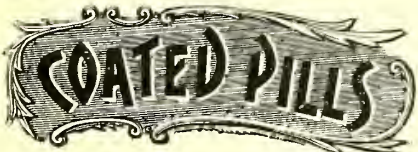
**WM. R. WARNER & CO., PHARMACEUTICAL  
CHEMISTS.**

*Sixteen International Prize Medals Awarded.*



Bromide of Sodium with Caffeine, in the Granular form. Very carefully and evenly made. Invaluable in Brain Fatigue arising from Over-work, etc. The *Lancet* (August 6, 1887, p. 265) states that "the Sodium compound does, in fact, agree better (than the potassium salt) with some stomachs."

Unequalled in their medicinal properties or in SOLUBILITY. Each pill will produce the effects expected, and an experience of thirty years, coupled with unremitting care and study has enabled the manufacturers to achieve RESULTS OTHERWISE UNATTAINABLE

**VASES OF PILLS.**

Elegant Counter Vases, of four different patterns and sizes. Prices from 4/10 upward including 1,000 Pills. See full details in Warner's Price List.

"No. 120" is an "all round" Antibilious or Liver Pill which has found universal favour.

|                                                                                                                                                                                                                               |                                                                                    |                                                                                                     |                                                                                     |                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------|
| <p> <b>A. Podophyllin, 1 gr.; Ext. Colocynth, 1 gr.:</b><br/> <b>Pv. Soc. Aloes, 1 gr.; Pv. Scammony, 1 gr.:</b><br/> <b>Pv. Saponia, 1-8 gr.; Ext. Hyoscyami, 1-8 gr.:</b><br/> <b>Gingerine, 1-8 gr. Dose, 2 to 4.</b> </p> | <p> <b>Per 1,000,</b><br/> <b>in Plain</b><br/> <b>Bottle</b><br/> <b>4/-</b> </p> | <p> <b>Per Stopped</b><br/> <b>Vase, with</b><br/> <b>painted glass</b><br/> <b>label, 6/4</b> </p> | <p> <b>Per Bottle</b><br/> <b>(Bulk)</b><br/> <b>of 5,000</b><br/> <b>17/8</b> </p> | <p> <b>Per 10,000</b><br/> <b>84/2</b> </p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------|

The essential principle of the gizzard, and bearing the same relation to poultry that pepsin does to the higher animals. Where pepsin refuses to act, and where, in severe cases, it has even been rejected by the stomach, Ingluvin has rapidly effected relief. Per oz. Bottle (stamped), 4/6. Supplied unstamped, and in 4-oz. bottles (also in lentiforms) for Dispensing. [3]

**British Depot—F. NEWBERY & SONS (Established over 150 years).**

**27 & 28 CHARTERHOUSE SQUARE, & 44 CHARTERHOUSE STREET, LONDON, E.C.**

Complete Catalogue, with Formula, free on demand.

Newbery's Annual Catalogues also contain full Details of these Preparations.

Telegraphic Address—"SACARINO LONDON."

Telephone No. 197, Bank.

# The Saccharin Corporation, Ltd.

165 QUEEN VICTORIA STREET, LONDON, E.C.

## ***Saccharin*** OF ALL STRENGTHS

**Highest Possible Strength.**—550 times sweeter than pure Cane Sugar. This strength is recommended in preference to any other.

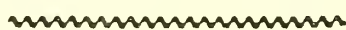
**Ordinary Strength.**—330 times sweeter than pure Cane Sugar.

**Soluble.** 475 and 300 times sweeter than pure Cane Sugar.

**Crystals.**—450 times sweeter than pure Cane Sugar.

**Crystallose.**—440 times sweeter than pure Cane Sugar.

THE 3 LAST STRENGTHS ARE SOLUBLE IN COLD WATER.



The Saccharin Corporation, Limited, are the owners of All Patents for the United Kingdom and Colonies for the commercial manufacture of Saccharin, and their Saccharin is the only Saccharin that can be purchased without ***risk of legal proceedings*** or the necessity for ***any indemnity.***

FULLEST PARTICULARS ON APPLICATION TO

## The Saccharin Corporation, Ltd.

165 QUEEN VICTORIA STREET, LONDON, E.C.

# SACCHARIN.

---

THE SACCHARIN CORPORATION

v.

THE ANGLO-CONTINENTAL CHEMICAL WORKS, LIMITED,  
AND REITMEYER.

The following is an extract of the Judgment of Mr. Justice Buckley, originally delivered on 6th April, 1900, and subsequently confirmed by the Judge on 8th May, 1900, relating to the Injunction granted against the Defendants:

"This Court doth Order and adjudge that the Defendants, the Anglo-Continental Chemical Works, Limited, and Robert Reitmeyer, their servants and agents, be restrained, during the continuance of the Letters Patent granted to Harold Imray, dated 29th December, 1894, and No. 25273 in the Statement of Claim mentioned from importing into England and from manufacturing, selling, supplying and using in England Saccharin of the strength 1.555, 1.350 and 1.300 and Saccharin of strength 555 *under the name of "SACCHARIN" "TIGRESS BRAND"* manufactured according to or in the manner described in the Specifications filed in pursuance of the Applications for the said Letters Patent or according to or in manner only colourably differing from the same and generally from infringing the rights of the Plaintiffs in respect of the said Letters Patent."

THE SACCHARIN CORPORATION, LTD.,

165 QUEEN VICTORIA STREET,

LONDON, E.C.

TELEPHONE 68 DALSTON,

OR

**WIRE**

"PLAYFELLOW LONDON"

"PLAYFELLOW MANCHESTER"

"PLAYFELLOW NEWCASTLE-ON-TYNE"

FOR

# Carbonic Acid Gas

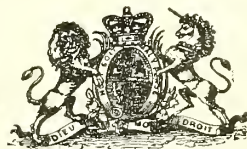
**THE CARBONIC ACID GAS CO.**

LEA BRIDGE ROAD, CLAPTON, LONDON, N.E.

POLLARD STREET EAST, ANCOATS, MANCHESTER.

SKINNERBURN ROAD, LOW ELSWICK, NEWCASTLE-ON-TYNE.

**9 Gold  
Medals.**



# IDRIS Royal Mineral Waters,

As supplied by  
Royal Warrant to  
THE QUEEN,

COMMAND THE  
**LARGEST SALE.**

All Chemists should stock  
these  
well-known Waters.

**SAMPLE CASE FREE.**



View of Waterfall at Cader Idris, North Wales. The Property of Idris & Co., Lim.

## IDRIS & CO., LTD.

Head Office and Factories: **CAMDEN TOWN, LONDON, N.W.**

Branch Factories: **LIVERPOOL, SOUTHAMPTON, and CANTERBURY.**

Depots: **ENFIELD, WATFORD, TEDDINGTON, BOURNEMOUTH, PORTSMOUTH, GLASGOW.**

# DIASTASED FARINA FOOD

Approved by the British Analytical Control

(See their Stamp on every Tin).

A FOOD FOR INFANTS, INVALIDS, AND THE AGED.

*A totally unsolicited Report of a Medical Man's experience with the Diastased Farina Food.*

DEAR SIRS,—Since August I have been trying your "Food," and I am well satisfied with the result. Milk is the most perfect food, but when you have to reckon with a low type of stomach, or a poor class of milk, assimilation is imperfect, dyspepsia frequent. The addition of your "Food" prevents the latter and hurries the former. I have had admirable results in the treatment of Phthisis, Chlorosis, Gastric Ulcer, Atonic Dyspepsia, and Neurasthenia.

Yours faithfully,

COLIN CAMPBELL, M.R.C.S.

YORKSHIRE, December 2, 1896.

In Tins, 1/6 and 2/6 each, from all Chemists.



Manufacturers:—E. BEANES & CO., Hackney Wick, LONDON, E

Hall's Wine yields a minimum protected profit of 25%.

Stands alone as a tonic, and is counted both by the public and medical profession as a superior preparation.

Its power to recover in all cases of mental and physical debility has been demonstrated over and over again.

New booklet. Just delivered by the printers. Superior advertising matter designed to help the retailer. Please apply for a dozen copies.

Stephen Smith & Co., Ltd., Bow, London, E.



No. 309.

## A. MILLAR & CO., LTD., DUBLIN PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

### BARNETT & FOSTER.

THE "NIAGARA" MICROBE-PROOF FILTER.  
CHEAPEST, STRONGEST, MOST DURABLE, AND QUICKEST  
BACTERIAL FILTER ON THE MARKET.

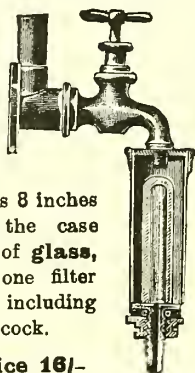


#### TABLE FILTERS.

The lower glass jar holds about 1½ pints, and is surmounted by a glass cylinder, containing the filter tube through which the water passes.

Price 16/-

#### SMALL SERVICE FILTER

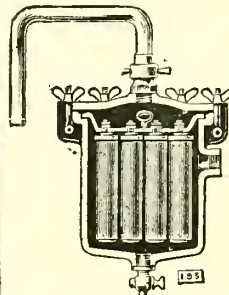


This is 8 inches long, the case made of glass, with one filter tube, including cock.

Price 16/-

#### LARGE SUPPLY FILTERS.

The iron cases are enamelled inside.



No. 1, giving 20 gallons per hour, £1/17/6.

No. 3, giving 60 gallons per hour, £3/12/6.

No. 5, giving 100 gallons per hour, £5/10/0.

No. 9, giving 180 gallons per hour, £7/10/0.

No. 15, giving 300 gallons per hour, £12/10/0.

LIBERAL DISCOUNT FOR QUANTITIES

NIAGARA WORKS, 26<sup>th</sup> EAGLE WHARF ROAD, LONDON, N.

# VIROL

## The New Nutrient.

VIROL is a combination of Bone Marrow (Red and Yellow), highly diastasic Malt Extract, New-laid Eggs (with the lime representing the shells), and Lemon Syrup prepared from the fresh fruit.

A striking feature of VIROL is the use of the *Red Bone Marrow*, which is not a fat, but consists largely of iron-bearing proteids extracted from finely comminuted ox rib and calf bones, with glycerine. VIROL is therefore

### A VALUABLE HÆMATINIC AS WELL AS A FAT FOOD.

The flavour of VIROL is delicious. It possesses surpassing advantages over cod-liver oil and other preparations generally prescribed for Invalids and Children.

VIROL is being largely prescribed and recommended by the Medical Profession all over the Country, and

## IS USED IN ALL THE LONDON CHILDREN'S HOSPITALS.

It is an article which finds a ready sale and is

## A Paying Line for Chemists.

***Retailed in Jars at 1/-, 1/8, 3/-, 4/6.***

The 1/8 size is in great demand.

## Virol is on the P.A.T.A. List.

Manufactured at the splendidly-appointed Laboratories of

# BOVRIL LIMITED

Under the superintendence of their experienced Staff of Chemists.

**VIROL LTD., 152 OLD STREET, LONDON, E.C.**

# PLASMON

*Registered Trade Mark. Patented in the U.K. and Abroad.*

**PLASMON** is an absolutely pure, soluble milk albumen, free from all chemicals, and being tasteless and odourless is capable of being used in any and every form of food.

**PLASMON** replaces all other nitrogenous substances in the dietary of the healthy and of the weak, and of the aged and the young.

**PLASMON** is used in many of the principal Hospitals, and is prescribed by medical men throughout the country.

Descriptive literature will be forwarded on application.

## PRICES :

Packets, each about 1 lb., 2/6.

" " ½ lb., 1/4.

" " ¼ lb., 9d.

**Plasmon Biscuits, Plain or Sweet.**  
tins about 1 lb., 1/6.

" " lbs., 3/-.

**Plasmon Chocolate, at 3/- per lb.**

**THE PLASMON SYNDICATE LIM.**

56 Duke Street,

Grosvenor Square,

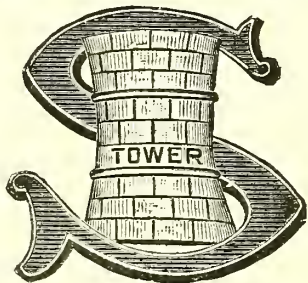
LONDON, W.

Retail Trade Discount 15 per cent.

On orders of £1 and upwards, carriage paid.

# STOWER'S LIME JUICE

See that each Bottle bears the  
**REGISTERED TRADE MARK,**  
and also the Signature (in Red) of the  
**SOLE MANUFACTURERS.**



*Alex Riddle & Co.*

## SOME REASONS FOR STOCKING.

It is the ORIGINAL.

It is absolutely PURE.

It is attractively PUT UP.

It is largely ADVERTISED.

It is in great DEMAND.

It is supplied to HER MAJESTY.

It has been specially selected for the Hospital Ships  
"PRINCESS OF WALES" and "MAINE," and the  
Imperial Yeomanry Base Hospital.

It is exclusively recommended by the MEDICAL PRO-  
FESSION.

It is supplied to all the principal HOSPITALS.

It takes up no time to Sell.

It leaves a Fair Profit.

## FREE TASTING SAMPLES AND COUNTER BOTTLES,

Handsome Show Cards, Attractive Bills,  
and other Advertising material liberally and  
freely supplied to the Trade.

*Sole Manufacturers and Proprietors,*

**ALEXANDER RIDDLE & CO., LTD., 36 & 38 COMMERCIAL ST., LONDON, E.**

# Cheltine

## FOODS

NOW BEING  
EXTENSIVELY ADVERTISED!

These FOODS are the outcome of suggestions made to the inventor by a celebrated London Specialist on Diet, and are the result of a combination of Medical Skill, Scientific Knowledge, and Practical Effort.

### CHELTINE DIABETIC FOOD.

Food 2/6 & 8/- per Tin, Biscuits 2/- per Box.

### CHELTINE ANÆMIC FOOD.

Food 1/- & 2/6 per Tin, Biscuits 2/- per Box.

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Food 1/- & 2/6 per Tin, Biscuits 2/- per Box.

### CHELTINE INVALIDS' FOOD.

Food 1/- & 2/6 per Tin, Biscuits 2/- per Box.

### CHELTINE INFANTS' FOOD.

1/- & 2/6 per Tin.

TRADE DISCOUNT 20%. TERMS—NETT CASH IN ONE MONTH. We are members of the P.A.T.A., and can only supply those who undertake not to sell under above prices. Carriage paid to all parts of the United Kingdom on parcels amounting to £1 and upwards. Cases and Boxes are returnable. An allowance of one-half is made if they are paid for.

WORTHS FOODS SYNDICATE, LTD., <sup>FOOD</sup> SPECIALISTS, Cheltine Works, CHELTENHAM.

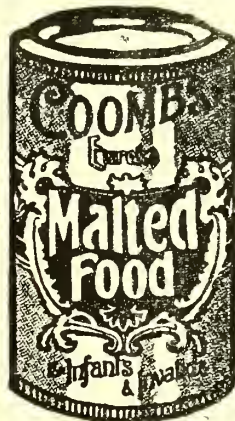
## IT WILL PAY YOU TO PUSH COOMBS' MALTED FOOD

for Infants and Invalids.

AWARDS.

2

GOLD  
MEDALS.



Recom-  
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by the  
Medical  
Faculty  
and  
Leading  
Analysts.

See  
Drs. Goodfellow's  
and  
Granville H.  
Sharpe's  
Reports.

Bears a good profit, and is only supplied to those who agree to sell at full advertised prices.

TERMS ON APPLICATION.


COOMBS' "EUREKA" AERATED FLOUR CO., LTD.  
Lenton Boulevard, Nottingham, 8 & 8a Farringdon  
Road, London, E.O.

## Vindayt Vindayt

THE NEW VINEGAR

for either Table use or Cooking and Pickling purposes. Superior in strength and flavour to all other vinegars, and absolutely pure. Unlike other vinegars, it contains no injurious acids, and is therefore strongly recommended by the Medical Profession.

## Datone Datone

 DISTILLED WHITE VINEGAR.


SOLD BY ALL GROCERS, STORES, CHEMISTS, &c.

SAMUEL GULLIVER & CO., LIMITED,

7 Argyle Street, Oxford Circus, W.

Works: 108 to 112 Bevedere Road, Lambeth,  
and at Aylesbury.

"VINDAYT" and "DATONE" are absolutely pure Wine Vinegars, and are much preferable to Malt Vinegars.

 Please ask us for Samples of British Wines and Cordials.



# DR TIBBLES' 1/2-Cocoa

"Undoubted Purity and Strength."—*Medical Magazine*.

"In the front rank of really Valuable Foods."—*Lancet*.

# PERFECTLY PURE BUT NOT INSIPID

FAVOURED BY THE HOMES AND HOSPITALS OF GREAT BRITAIN.

Proved Products of 170 years' reputation.

## FRY'S COCOAS & CHOCOLATES.

Price Lists, &c., on application.

TELEGRAPHIC ADDRESSES—

"FRY, BRISTOL." "FRYSON, LONDON."

250 GOLD MEDALS AND DIPLOMAS.

## TEE-TO-TUM TEAS

ARE OF  
EXCEPTIONAL VALUE.

PRICES—

11d., 1/1, 1/4, 1/6, 1/8, 1/10, 2/- per lb.

In 1/2-lb., 1/4-lb. and 1-lb. Packets, and 5 7, or 10 lb. Tins.

AGENTS APPOINTED.

WRITE FOR TERMS TO

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PEPTONIZED

**COCOA**  
& MILK

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**COFFEE**  
(CAFÉ ZYLAK) & MILK

These three preparations are made with pure rich PRE-DIGESTED Country Milk, and, by mere dilution with hot water, afford a delicious restorative beverage, the assimilation of which requires no digestive effort.

TINS 2s. 6d.

HALF-TINS (SAMPLES), 1s. 6d.

Obtainable Everywhere.

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## Keystone Burgundy.

Now an established article of trade, yet well supported by advertising. It also inherently possesses that quality that ensures steady demand where once introduced, being suited to the public want both in flavour and price.

25 per cent. minimum and protected profit.

Please write for trade list. The trading possibilities of Keystone Burgundy are greater than those of any other wine, owing to the popular prices at which you can retail it.

No 310. Stephen Smith & Co., Ltd., Bow, London, E.



## SUMMER LINES.

THE 20TH CENTURY  
BEVERAGE

C.C.C.

WHOLESALE  
DINNER WINE.

Concentrated Claret Cup

21/6 & 12/6 doz.

Wine Licence Required.

"Health Salt" = 27/ =

"Sulphur Salt" = 32/ =

Lemon Crystals = 36/ =

Lime Juice Crystals 36/ =

Brown Boot Polish 36/ =

Straw Hat Polish 21/ =, 40/ =

"P & O" Chutney 5/6, 10/ =

Salad Dressing Cream 8/ =

In bottles 6 & 12 to Gallon.  
"We have little hesitation in placing as the first the Concentrated Claret Cup, which is a well-flavoured compound that only requires aerated or plain water and a piece of ice to make the favourite beverage." — *Chemist and Druggist*, June 3, 1899.

GROSS 4 oz. Tins with lever lids, handsomely labelled. Customer's name & address printed on 1 gross assorted free.

2½ lb. direct squares. Customer's name and address printed on 1 gross assorted, free.

3 oz. white glass bottle, name on 1 gross, free.

All colours. Name on 1 gross assorted, free.

DOZEN ½ lb. and 1 lb. bottles. "Is very good both in flavour and pungency." — *Chemist and Druggist*.

Prepared with Double Cream. "We commend the Salad Dressing Cream, a piquant and inseparable compound which is ready for use without any addition whatever." — *Chemist and Druggist*.

Terms: Net Cash. Carriage Paid on £5 orders.

**BLEASDALE, Limited, YORK**

## BUYERS' GUIDE.

See pages 15, 16, and 17.

## HOLLOWAY'S PILLS & OINTMENT

Have the Largest Sale of any Medicine in the World.

MANUFACTURED ONLY AT  
**PROFESSOR HOLLOWAY'S ESTABLISHMENT,**  
78 New Oxford St. (late 533 Oxford St.), London.

And sold at 1s. 1d., 2s. 6d., 4s. 6d., 11s., 22s., and 88s. each Box or Pot. Chemists and Druggists selling "Holloway's Pills and Ointment" can, on application to the above address, or to the Wholesale House with whom they deal, be supplied free of charge with Handbills and Posters with their name and address printed at foot.

Wholesale Terms, see List of "Proprietary Articles" in most Prices Current.

## FRESH LEMON AND BITTER ORANGE PEEL

In accordance with the new B.P. of 1898.

Out by Hand by the most skilful cutters, and highly commended by leading firms.

ALSO MANUFACTURER OF ALL KINDS OF

## DRIED ORANGE & LEMON PEEL

ENGLISH CUT ONLY.

THE CHEAPEST AND BEST IN THE TRADE

Quotations and Samples on application to

**JOSEPH TOOMEY,**

15 MOUNTFORD ST., UNION ST., LONDON, EAST.

## ANNATTO.

Treble Strength and Bright.

LIQUID, CAKE, or ROLL.

Special Prices to Large Buyers.

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MANUFACTURER—

**J. W. BAKER** (late Clements),

York St., St. Paul's, BRISTOL.

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THE NORTH LONDON GLASS BOTTLE COMPANY

(I. ISAACS & CO., Proprietors)

Beg to inform the Trade that they have made a further reduction in the price of their Bottles, as follows:—

The NEW SHAPE FLAT BOTTLES, with rounded edges, plain or graduated—

3 & 4 oz. .. 9/- per gross. | 10 & 12 oz. .. 15/- per gross.  
6 .. 8 .. .. 10/- .. | 16 .. .. 18/- ..

WHITE MOULDED PHIALS, plain or graduated Teaspoons—

1 oz. .. .. 3/6 per gross. | 1½ oz. .. .. 4/9 per gross.  
1 .. .. .. 4/- .. | 2 .. .. .. 5/6 ..

PLEASE NOTE.

Six gross and upwards, assorted or otherwise, are carriage paid to any address in England; smaller quantities not carriage paid.

**I. ISAACS & CO., Glass Bottle Manufacturers,**  
106 MIDLAND ROAD, ST. PANCRAS, LONDON.

Established 60 years.

Bankers—London and Westminster Bank.

# CAFOLIN

## Pure Liquid Coffee

Produces instantaneously the Best Coffee in the World. Preserves its Fine Flavour and its wonderful Stimulating Powers. Also Cold or Iced, and for Puddings, Ices, &c., most Delicious.

IN CAFOLIN BOTTLES.

FOR 20 COFFEE CUPS, 1/6; FOR 14 COFFEE CUPS, 1/2.

Wholesale—PEEK BROS. & WINCH, LIM., LONDON.

All Letters to CAFOLIN CO., LD., 20 EASTCHEAP, E.C.

## THOS. GUEST & CO.

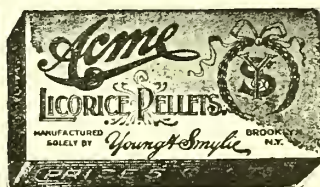
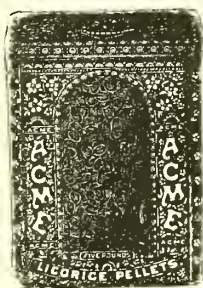
Carruthers Street, MANCHESTER.

MAKERS OF MEDICATED LOZENGES AND JUJUBES.

B.P., T.H. Ph., and General Proprietary Lozenges. Decorated Tin Cartons of 2 and 4 lbs. Linseed, Licorice and Chlorodyne—a Speciality. Finest Gum Jujubes and Pastilles—Glycerine and Black Currant, &c. Granular and all Effervescing Preparations. Boiled Sugars, Floral Tablets.

SEND FOR LIST, SAMPLES, AND COMPARE.

TELEPHONE 235. TELEGRAMS "GUESTO."



The undersigned, who are the leading Licorice Specialty House in America, beg to announce that they have appointed

## MESSRS. F. SCHUTZE & CO.

Of 89 Southwark Street, LONDON, S.E.

as their **SELLING AGENTS** in Great Britain for the Chemist's trade. They will keep on hand ample stocks of our **Corrugated Stick Licorice**—sticks averaging one ounce, packed 80 sticks to box; **Acme Licorice Pellets**, in 5-lb. glass-front tins and in 5-cent packages, 40 to box; **Licorice Lozenges**, in 5-lb. glass-front tins and in 5-lb. glass jars; **Tar, Licorice, and Tolu Wafers**, in 5-lb. glass-front tins; **Purity** brand Penny Sticks, packed 100 to box.

**Y. & S. Stick Licorice** (plain), 4, 6, 8, 12, and 16 sticks to lb., packed in laurel leaves, cases of 1 cwt.

We solicit through our above-named Agents an initial order for our various preparations, which we believe will appeal to the most exacting and discriminating taste.

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YOUNG & SMYLYE, BOROUGH of BROOKLYN, N.Y. CITY, U.S.A.

ESTABLISHED 1845.

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FIRST QUALITY
(Salvo Petrolia)

VASELINE

SECOND QUALITY

May be procured through all Chemists and Druggists,
and is Manufactured by

THE DEE OIL CO., LTD.

Works:—SALTNEY, CHESTER.

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Sanctioned by the Board of Trade Marine Department, and included
in their instructions issued May, 1894, to superintendents of Mer-
cantile Marine Offices.

Manufactured in five distinct qualities—WHITE, LEMON, YELLOW,
GOLDEN, and RED (Veterinary).

Packed in Tins, 1, 2, 4, 5, 7, 10, 14, and 23 lbs., 56 and 112 lb.
Drums, and 3 cwt. Barrels.

OLEUM DEELINÆ

(REGISTERED).

Generally Adopted by the Medical Profession for

**OPHTHALMIA, SCURVY, RINGWORM,
ECZEMA, and all SKIN DISEASES.**

Packed in Cases—One dozen 1s. Bottles; One dozen 2s. Bottles.
Pint Bottles, 4s. 6d. each, for Hospitals and Dispensing Chemists.
Testimonials may be had upon application.

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As old-established Perfume Distillers we offer
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Floral Extracts

in glass-stoppered bottles or in tins on
specially favourable terms. Also

Essential Oils, Perfumed Oils and
Pomades, and Rose Water.

Guaranteed pure and the finest on the market.

Samples and Price List of

Claude Raynaud & Cie.,

Grasse, France,

or 7, 8, & 9 Hosier Lane, London.

MAYPOLE SOAP

DYES ANY COLOUR.

The Quickest Seller! The Fastest Dye!

Maypole Soap Dyes any Colour. The Largest Sale!
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BATH & TOILET CRYSTALS

(ANTI-ZYMOTIC).

MESATEE CRYSTALS are delicately perfumed Rose, Lemon, Lavender,
Almond, or Rosemary.

MESATEE CRYSTALS for the Bath and Toilet are a great luxury, ex-
hilarating and refreshing apart from their Hygienic properties, which
render them especially useful for Gouty and Rheumatic subjects.

MESATEE CRYSTALS for the Nursery and general Domestic purposes
are invaluable.

MESATEE CRYSTALS for Softening the Water are unequalled.
Highly recommended by the Medical Profession.

No Household should be without "**MESATEE CRYSTALS**."

Price in Tins, 1/-, 2/-, and 7/-.

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PRIZE MEDAL

Recommended by **SKIN** Unscented,
Eminent Medical Men. yet
Sweet as a Rose.

Although low in price, it ranks with high-class
Soaps, and is altogether the best extant for
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SOAP.

The longer it is kept the more it improves and increases in value.
LIBERAL TERMS TO THE TRADE.

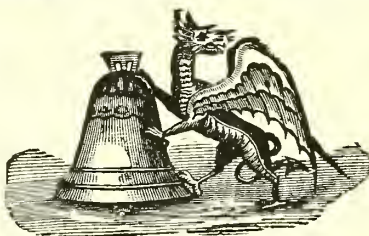
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Wholesale & Export Druggists,
MANUFACTURING PHARMACEUTICAL AND ANALYTICAL CHEMISTS.

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Sole Agents for the United Kingdom for LIEBREICH'S PEPSINE ESSENCE.

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THE ONLY GENUINE

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Price 6/9 per Doz.

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Find a Ready Sale, and should be
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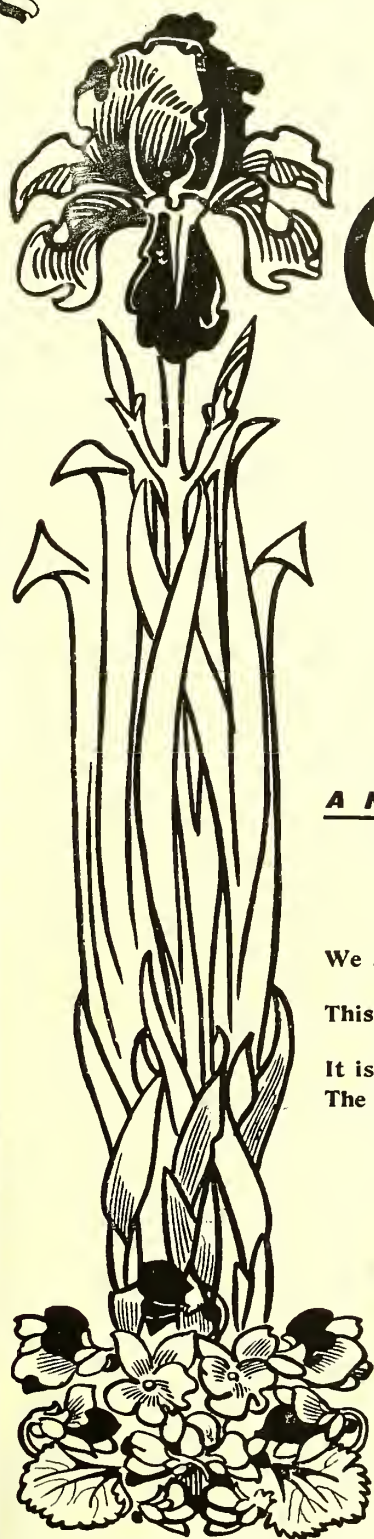
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OTTO OF ORRIS

*A NATURAL ODOUR, prepared from Orris Root,
possessing the true fragrance of Violets.*

DILUTED OTTO OF ORRIS

(BLUE LABEL).

We supply the OTTO diluted, so that one ounce is equal to one ounce of the Finest Concrete Oil.

This **DILUTED OTTO** has a very much higher odour value than any other Violet odour at the same cost.

It is mellowed and not enfeebled by age.

The Diluted Otto is also of constant strength, and it is very suitable for general use.

PREPARED BY

HORNER & SONS,

ESSENTIAL OIL DISTILLERS

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New Season's **GREEN EXTRACTS** ("Anchor Brand")**HENBANE | BELLADONNA**Prepared from Second Year's Growth
of Biennial Plant.From English-grown Herb of
fine quality.**Samples and Prices on application.**

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MACKEY, MACKEY & CO., LTD.Telephone
No. 589 Hop.]**175 GRANGE ROAD, BERMONDSEY, LONDON, S.E.**[Telegraphic Address,
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OF ALL KINDS,

Aubépine, Citral, Cèillet, Heliotrope, Lilas, Muguet, Musc, Neroline, Neroli, Rhodinol, Roséol, Citral of
Lemon, Vanilline, Violette, &c., &c., manufactured by**L. GIVAUDAN, VERNIER, near GENEVA (Switzerland).****JAMES
BURROUGH**

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PERFECTLY PURE.

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PURE ORANGE WINE,**S ⁰/₆₁ V ⁰/₆₄ M**

AT LOWEST PRICES.

Special Terms to Large Buyers.

PURE GINGER WINE.**FOREIGN WINE AND SPIRIT MERCHANTS.****SOLE PROPRIETORS OF THE FAMOUS "GLENALLAN" PURE MALT WHISKY.****7 YEARS OLD.****THE CREAM OF SCOTCH WHISKY.**Per doz. **42/-** Per doz.**TRY IT IN YOUR BATH.****SCRUBB'S CLOUDY FLUID AMMONIA****MARVELLOUS PREPARATION.**

Refreshing as a Turkish Bath.

Splendid Cleansing Preparation for the Hair.

Allays the Irritation caused by Mosquito Bites.

Restores the Colour to Carpets.

Of all Chemists, Etc.

Invaluable for Toilet Purposes.

Removes Stains and Grease Spots from Clothing.

Invigorating in Hot Climates.

Cleans Plate and Jewellery.

Price 1s. per Bottle.**SCRUBB & CO., GUILDFORD STREET, LAMBETH, LONDON, S.E.**

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'TABLOID' Mineral Water Salts contain the essential ingredients of the waters whose names they bear. By their use ordinary spring water can be converted into a fresh effervescent mineral water draught. The list includes

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'TABLOID' VICHY SALT and
LITHIUM CITRATE.

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Supplied in tubes of 25.

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The best soap for an infant's skin is

Vinolia Baby Soap.

FULL RETAIL PRICE, 1/6 per box of 3 tablets. TRADE PRICE, 9/6 per dozen boxes, subject.

VINOLIA CO., LTD., MALDEN CRESCENT, LONDON, N.W.

SPECIALITY.

The manufacture of all kinds of Pills and Tablets of high-class finish, and of reliable Drugs and Chemicals. The original manufacturers of soft Glycerine Lozenges and Jujubes.

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PRICE'S GLYCERIN,
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Glycerol of Malt (Price).

"	"	with Hypophosphites.
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"	"	" { Cod Liver Oil &
"	"	" Hypophosphites.
"	"	" Easton.
"	"	" Cascara.
"	"	" Terebena.
"	"	" Iron.
"	"	" Creosote.
"	"	" Pepsine & Pan-
"	"	" creatine.
"	"	" Chemical Food.
"	"	" Hops.
"	"	" Linseed, Squill, &
"	"	" Ipecacuanha.

* WRITE FOR SPECIAL TERMS.

COMPOUND
**GLYCEROL OF
HYPOPHOSPHITES**
(PRICE).

Containing in a perfectly bright and neutral solution the Hypophosphites of Lime, Potash, Iron, Manganese with Quinine, Strychnine, &c.

Superior to similar preparations preserved with glucose or other sugars.

In Bulk (unstamped for dispensing), 1/8 per lb.; W. Quarts, 1/6 per lb. In Bottles (stamped) to retail at 2/6 and 4/6 each

Supersedes Mineral Waters.

COMPOUND
**GLYCEROL OF
MAGNESIUM SULPHATE**
(PRICE).

A palatable cooling aperient, alterative, and blood purifier, suitable for delicate constitutions requiring saline treatment.

Pharmaceutical Department,

PRICE'S P.C. COMPLY., Ltd., London, Liverpool, & Manchester.

THE CHEMIST & DRUGGIST SUPPLEMENT.

LONDON: 42 CANNON STREET E.C.
SATURDAY, JULY 21, 1900

Businesses for Disposal
Businesses Wanted
Premises to Let
Auction Sales

ALSO EXCHANGE COLUMN.
For Bargains see end of this Supplement.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

**DON'T
MISS
IT**

Our Summer Issue will be published next week, JULY 28.

The Cover will be as handsome as any of its predecessors.

There will be Twelve Thousand Copies circulated, and a Supplement in each one of them.

That is 12,000 chances for each Advertisement inserted, without reckoning the extra Supplements given to those who want them.

If you need a Situation or an Assistant, to Buy or Sell a Business, or have anything to dispose of through the Exchange Column, send your Advertisement to us early in the week.

We go to press earlier, but will receive Supplement Advertisements up to **3 o'clock on Thursday, the 26th inst.**

42 Cannon Street, July 21, 1900.

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MESSRS. ORRIDGE & CO., 56 LUDGATE HILL, E.C.

May be consulted at their Offices on matters of **SALE, PURCHASE, and VALUATION.**

VENDORS have the advantage of Messrs. O. & Co.'s direct attention and advice as to value without additional fee.

PURCHASERS are invited to forward a statement of their requirements, which will be notified in a register free of charge.

VALUATIONS having always been a prominent feature, Messrs. O. & Co. trust that the lengthened period during which they have enjoyed the confidence of the profession will be regarded as a sufficient proof of the sincerity of their endeavours to conduct these transactions in an honourable and straightforward manner.

1.—£1,000.—**CITY** (within easy distance of).—Good-class Dispensing and Retail Business; returns present rate £1,000, with very good profits, above the average; attractive shop; good house; terms, valuation and small premium for goodwill.

2.—£500.—**LONDON** (Good-class Suburb).—Dispensing and Retail Business; returns exceed £400; very well fitted shop and good stock; price £400, about the value of stock and fixtures.

3.—£1,000.—**SOUTH KENSINGTON**.—First-class Retail and Dispensing Business, held by vendor many years; returns exceed £1,000; net profit one third; attractive shop, well fitted and stocked; commodious residence, easily let off if wished; reasonable offer wanted.

4.—£2,300.—**ALEXANDRA PALACE** (near).—Modern Pharmacy, well situated near busy railway station; returns average £2,300; net profit £400; handsomely fitted pharmacy; large residence, held on lease; terms, valuation of stock and fixtures and moderate premium for goodwill.

5.—£900.—**LONDON, N.W. (Main Road)**.—Old-established Business; returns present rate between £800 and £900 yearly; commodious well-fitted shop; good residence, held on lease; price about £750.

6.—£700.—**LONDON, S.E.**—Well-established Business; returns exceed £700; profit £240; very well fitted shop; comfortable residence; private entrance; price £550.

7.—£300.—**LONDON, S.W.**—Very old established Business; well situated in business thoroughfare; returns £200; very profitable; rent £50; 21 years' lease; price £250.

8.—£1,500.—**WEST OF LONDON** (about 50 miles out, small Market Town).—Family Retail and Dispensing Business; returns between £1,400 and £1,500 per annum; net profit nearly £500; double-fronted well-fitted shop, and ample stock; commodious residence; rent moderate; price £1,250; illness cause of sale.

9.—£700.—**KENT** (Good Business Town).—Family Retail and Dispensing Business; returns present rate about £700; gross profit half; vendor having bought a London business, is disposed to deal liberally with an early purchaser; about £580 required.

10.—£900.—**HOME COUNTY (S.W. Line)**.—Old-established Business; returns between £850 and £900; net profit exceeds £400 yearly (proof given); vendor will grant a lease for 21 years; price £750.

11.—£450.—**BERKE**.—Good class Light Retail and Dispensing Business with small appointment attached; returns £450; excellent profits; double-fronted well-fitted shop; convenient house, private entrance; offer wanted.

12.—£500.—**LANCS**.—General Retail and Prescribing Business; returns between £450 and £500; small residence; rent £22 yearly; about £325 required.

13.—£1,200.—**SUSSEX**.—Dispensing and Retail Business; situated in one of the principal streets in a rising health-resort; returns last year £1,200; the shop is very nicely fitted; modern house, in good repair; price £650, or near offer.

14.—£2,000.—**WEST OF ENGLAND**.—Charming locality; first-class Dispensing and Retail Business; returns between £1,500 and £2,000 per annum; net profit exceeds £500; very desirable residence, held on lease; further particulars on application.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION. Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the special attention of a London Agent.

SPECIAL NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale suitable for Gentlemen with small capital, from £200 to £500.

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VALUER,

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BUSINESSES THOROUGHLY INVESTIGATED.

VALUATIONS.—The long and varied experience of F. J. BRETT in valuing all classes of Businesses throughout the United Kingdom, together with his ever-increasing connection, renders it desirable that you should secure his services, in order to have your interests well protected. Stocks carefully taken.

£1,520 returns.—MIDLANDS.—Very old-established Retail, Dispensing, &c., in prominent position of large town; prices are good and practically no cutting, although it is well adapted for an up-to-date trade; net profit about £500 per annum; there is also an appointment realising £130 per annum; price £1,500, or reasonable goodwill and valuation; references required of applicants.

£775 returns.—LONDON.—An exceptionally profitable Retail; fully one-half profit; returns are chiefly own preparations; this business, in hands of pushing man, is capable of much extension; price £650.

£880 returns.—LAKE DISTRICT.—General Light Retail, in close proximity to the Lakes; Business is old-established; there is a good house, with yard and garden attached; price £500.

£2,000 returns.—YORKS.—Wholesale and Retail Business; very old-established; the retail trade is largely in proprietaries, and the wholesale in essences, &c.; price £700.

£500 returns.—LANCS.—Exceptionally profitable Retail, with unusual scope for increase; net profit £220; price £400.

£900 returns.—SOUTH COAST.—Good-class Retail and Dispensing, in favourite seaside resort; good house; net profit £300; price £600.

Mr. BRETT has buyers for large concerns returning from £5,000 to £10,000, who are prepared to pay cash down.

BERDOE & CO.

CHEMISTS' TRANSFER AGENTS AND VALUERS,

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Established 1870.

VALUATIONS are in all cases conducted by a member of the firm, and the most careful attention to details, which is so essential, may be relied upon.

1.—**BATH.**—Good-class Retail and Dispensing Business: best position in the City; low rent; returns £2200, formerly were £5,000, and can be done again; price £1,500 or reasonable offer.

2.—**BERKSHIRE.**—Banks of Thames; select Retail and Dispensing Business; returns £450; Post Office pays £100; net profit £250; same hands nearly 20 years; price £500.

3.—**YORKSHIRE.**—Inland health-resort; good-class Retail and Dispensing Business; returns £850 with good profits; 3,000 prescriptions dispensed last year; price £750.

4.—**MONMOUTHSHIRE.**—Good-class Family Retail and Dispensing Business; returns over £2,000; net profit nearly £500; excellent residence, low rent; price £1,300.

5.—**LANCASHIRE.**—Totally unopposed Business; returns £500, and making excellent profits; low rent; shop is well fitted and stocked; price £400.

6.—**BUCKS.**—Unopposed Retail and Prescribing Business; returns £6 weekly, ought to do £10; expenses nominal; good house and garden; price £200; thoroughly reliable.

7.—**WESTERN COUNTY.**—Ready-money Retail, Dispensing, and Prescribing Business; returns £1,500; net profit nearly £500; rent £45, on lease; good house; price £900.

8.—**SURREY (Banks of Thames, near town).**—Good-class Retail and Dispensing Business; returns £800; capable of being increased; good house, small garden; price £625.

9.—**LONDON, N.**—Good main thoroughfare: returns £1070; net profit £300; good house, handsomely-fitted shop, and well stocked; price £750.

10.—**LONDON, N.**—Retail and Prescribing Business, under management: returns £10 weekly; well fitted and stocked shop; price £350, of which £250 could be paid by instalments.

UP-TO-DATE CHEMISTS

Should turn to page 36 in this year's CHEMISTS' AND DRUGGISTS' Diary, where we give two reasons why all Chemists should have an annual "STOCKTAKING."

JUDD & MANNERS

CHEMISTS' VALUERS AND ACCOUNTANTS,

Transfer Agents, Partnership Negotiators, & Arbitrators,

76 CANNON STREET, LONDON, E.C.

Re the late Mr. D. S. DAVIES.

MESSRS. JUDD & MANNERS are instructed to sell by private treaty, as a going concern, the Chemist and Druggist's business situate at 45 Craven Street, London, W. The returns are over £1,100 per annum at very good prices, consisting mainly of Dispensing and Family Retail trade. The premises include a splendid house of 14 rooms and 6 cellars, with private entrance and every convenience, and a handsome modern pharmacy with up-to-date appliances and complete stock.

BATH.

The first-class Cash Retail and Dispensing Business as carried on for many years by Mr. H. J. Masters, at No. 5 Cheap Street, Bath.

The returns for the last 3 years average nearly £3,000 per annum at good prices. The Pharmacy is modern and handsome, and the stock-in-trade is large and well assorted. Price required about £1,500, or valuation terms can be arranged. Full particulars and orders to view upon application to Messrs. Judd & Manners.

THOS. TOMLINSON & SON

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9 NEW CANNON STREET, MANCHESTER.

Valuations Conducted with careful attention to detail.

£1,000 returns.—MIDLANDS.—Good General trade; lot of own Proprietaries; well-fitted shop (mostly by Treble); private entrance to good house; satisfactory reason for disposal; price, valuation only.

£600 returns.—SHEFFIELD.—Growing Business; General Light Retail; profit over £200 net; rent £40; lease can be had; price £350, fair value of stock and fixtures.

Inventoried Stocktakings for ascertaining profit or other purposes.

TERMS ON APPLICATION.

Telegraphic Address—"TOMTOM." Telephone No. 3965 National.

J. SHACKLADY,

CHEMISTS' VALUER AND ACCOUNTANT

56 Hanover Street,
LIVERPOOL.

TO LET.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

BRADFORD.—Finest Shop in the West Riding, to Let; lately occupied by Worsley's, Limited; in one of the busiest thoroughfares; 3,000 yards floor area; or could be divided; also basement, with 1,500 yards area; electric light; very suitable for Cash Chemist or Drug-store; in immediate possession. Apply, Henry Lingard, Bradford.

LIVERPOOL.—Fine new corner Shop in fast-rising district to Let; over hundred houses being built immediately behind shop; rent, with good house, only £45; excellent opening for a Chemist; no opposition; nice district. Apply, Holdsworth, 65 South John Street, Liverpool.

TO Chemists.—Shop to Let, No. 14 The Parade, Church Road, Willesden; fine main road position; splendid opening for above business; handsome premises; part can be let off at good rent; front to suit tenant, and liberal terms to commence; rent £85, on lease. Apply, O. F. Day, 95 Church Street, Stoke Newington, N.

FOR SALE.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

FOR Sale, by a well-known Stores, who are closing their Chemistry Department, useful stock of Drugs, Tinctures, Perfumes, Sponges, &c., Shelf Show-bottles, &c.; list can be had on application; goods can be seen in London. Address, "Drugs," at Horncastle's, 61 Oldspade, E.C.

SYPHON-FILLER. with Syrup-pump, Barnett & Foster's, Galway; also hand-power Bottle-brushing Machine. Wilkinson, Chemist, Nailsworth.

TO be Sold, for £14, Utensils used in Pill-making, Bracher's Powder Mixer and Sieve, Schneider's Pill-masher, 2 Pill-pipers 2 and 4 grain, Pill-cutter, for hand or steam, will cut 60 pills. W. Gabites, 61 Upper Warwick Street, Liverpool.

BUSINESSES FOR DISPOSAL

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

BIRKENHEAD.—£261: Light Retail and Dispensing Business, well fitted and stocked, in a growing neighbourhood; average returns last two years under management, over £430 per annum; good house, every convenience; rent £35; death reason for selling. Apply, by letter, to Q., c/o H. Jackson & Sons, 2 Brooks Alley, Liverpool.

BIRMINGHAM (near).—Profitable Light Retail and Prescribing Business, in good position; returns over £800; low rent; 10 years' lease; valuation of stock and fixtures about £300. Apply, "Reliable" (235/14), Office of this Paper.

BOLTON (Lancashire).—Owner of two Businesses is open to dispose of one on advantageous terms to responsible party. Principals only may have particulars from J. Myers, Rumworth Drug Stores, St. Helen's Road, Bolton.

BOLTON (Lancashire).—Death cause of sale: valuable centrally-situated Chemist's and Druggist's Business for immediate Disposal; established over 50 years; a number of exceedingly profitable Specialities included in the sale; first-class fittings, stock, &c.; has been in hands of late proprietor over 30 years. Apply, 136 Bradshawgate, Bolton.

BURTON-ON-TRENT.—On and after September 29 next, profitable Cash Retail and Prescribing Business; good house, corner shop and warehouse; improving neighbourhood; returns over £400, much neglected; could quickly double with energetic management; owner retiring; valuation £250; rent £35. Street, Chemist, Burton-on-Trent.

CHESHIRE.—£550: popular seaside resort; an old-established good Retail and Prescribing Business; corner position; well fitted and stocked; good house, every convenience, private entrance, electric light throughout; reason for selling, proprietor retiring; splendid opportunity; lease given. Apply by letter, Q., c/o H. Jackson & Sons, 2 Brooks Alley, Liverpool.

HOME COUNTIES (4 miles from Railway).—Unopposed Light Retail; absolutely sound, progressive Country Business; returns over £1,000; excellent profits; rent £35; price £800, £500 cash balance by instalments out of profits to approved buyer; there is also appointment worth £100 a year. "Hops" (231/40), Office of this Paper.

INGLETON, YORKS.—In this rising health-resort, good Light Country Business for Disposal, immediately; well stocked for season just commencing; returns nearly £400 at full prices, increasing; best position; rent only £13; nearest Obemist 4 miles; full investigation asked; price £300; satisfactory reasons for disposal. J. T. Knowles, Obemist, Ingleton, Yorkshire.

LEEDS.—Chemist's old-established Mixed Business, main thoroughfare; returns £700; Patents £60 per annum; exceptionally good profits; large house and shop, recently re-fitted; splendid opening for qualified man; reasonable price. Full particulars, L. H. W., Raimes & Co., York.

LIVERPOOL.—£250: Light Retail and Dispensing Business, in a good neighbourhood; average returns, under management, for last three years, over £450 per annum; corner shop, good house, with private entrance; excellent opening for Dentistry. Apply, by letter, to Q., c/o H. Jackson & Sons, 2 Brooks Alley, Liverpool.

LONDON, N.W.—For immediate Disposal, an old-established Dispensing and Light Retail Business, yielding a net income of nearly £300 per annum; large and handsome Pharmacy, well stocked; large and convenient house, with side and back entrances and small garden; the business is capable of much increase by personal attention of an up-to-date Pharmacist who has had experience in Photographic goods. Address, "Faraday" (232/27), Office of this Paper. N.B.—Only cash purchasers entertained.

MIDLANDS.—Light Retail and Dispensing Business, at present returning over £12 weekly under management; good position on main road of large manufacturing town; convenient premises, held under lease; shop nicely fitted, with good window; price, valuation, about £200, or offer; satisfactory reasons for sale. Apply, "Ruby" (227/34), Office of this Paper.

NORTH OF ENGLAND TOWN.—Owing to unforeseen circumstances, the proprietor of a good-class Retail and Dispensing Business, returning nearly £1,400 a year, is open to negotiate for a successor; the returns show constant increase, and the net profit about £300; handsome shop and good stock; every investigation allowed; price only £600. Apply, "Sacrifice" (237/7), Office of this Paper.

SEASIDE (Rising town on South Coast).—First-class Retail and Dispensing Business; returns £1,200, with a clear net profit of over £300 yearly; large shop, well fitted; stock and fixtures worth £600; convenient house, low rent, on lease; cash price £650; rare chance for energetic young men; sure to increase. "Hazeine" (237/11), Office of this Paper.

SOUTH-WEST OF ENGLAND.—Good-class Cash Retail and Dispensing Business, with good sale of own proprietary articles; returns over £1,400, making a net annual profit of £400; rent of house, garden, and shop, only £49; business can be increased; selling solely on account of serious illness; price £850; bona-fide enquiries only replied to. "Ferri" (237/12), Office of this Paper.

SHROPSHIRE.—£170 cash: rare bargain, through ill-health; genuine Retail and Prescribing Business; old-established, doing £6 a week; good prices; no opposition; populous neighbourhood; large industries; good house and garden; low rent; only wants seeing. "Ferri" (235/36), Office of this Paper. No Agents.

SOUTHPORT.—Old-established Chemist's and Dentist's Business for immediate Disposal; well-fitted shop and good warehouse; house very good; valuation or offer; photo of premises can be sent. Address, T. B. (224/2), Office of this Paper.

SOUTH WALES.—For immediate Disposal a Mixed Country Business, in working district; returns £400 per year; good profits and Prescribing; sell at valuation. Apply, "Iris" (234/30), Office of this Paper.

SOUTHERN SUBURBS OF LONDON.—Owner of a modern Cash Pharmacy offers the same at a sacrifice—namely, bare valuation of stock and fixtures, having made arrangements for entering the Wholesale; returns £900; plenty of scope for energy; cash required £630 to £700. "Thymol" (237/8), Office of this Paper.

SURREY.—A genuine, Mixed Country Business; steadily increasing; profit last year £245; rent £30; price £450. Apply, "Nemo" (122/34), Office of this Paper.

TEESIDE.—Small Cash Drug Business for immediate Disposal, owing to ill-health. Particulars on application, 234/19, Office of this Paper.

WEST OF ENGLAND (Residential Town).—First-class Retail and Dispensing business, in splendid position; returning £1,400 a year, very good profits; owner leaving the trade after many years' successful trading; will sell by valuation, about £1,200. Apply, "Glos" (237/9), Office of this Paper.

WEST RIDING (Yorks).—For immediate Disposal, through ill-health, old-established Mixed Retail Business; well stocked and nicely fitted; full particulars to suitable enquirers; good opportunity. Address, 235/26, Office of this Paper.

YORKS.—Old-established and well fitted Shop; business Mixed, with valuable Agency; good horse; satisfactory reason for disposal; low price to immediate purchaser. Full particulars from "Ferrum" (235/3), Office of this Paper.

YORKSHIRE.—In small manufacturing town in West Riding, a good Family Business for Disposal, with Wine and Spirits; returning £150; price £1,000; owner going into Wholesale; modern premises, excellent house; can have lease or purchase building. Apply, "Barracks" (235/14), Office of this Paper.

YORKSHIRE.—Light Retail, Dispensing, and Prescribing Business in a small town, with no competition; returns £1,100, at excellent prices; rent £35; owner leaving the trade sole cause of sale; price £750; worth the special attention of anyone wanting a business in this county; every investigation permitted. "Yorks" (237/10), Office of this Paper.

A FIRST-CLASS Dispensing and Family Retail Business for Sale; old-established; satisfactory reasons for disposal. For price and particulars, apply "Beta" (97/46), Office of this Paper.

CASH Retail and Prescribing; main street in rapidly-improving South of England town; returns £450, increasing; very profitable; good opening for Dentistry; owner taking larger business; reference kindly permitted to Messrs. Randall & Son, of Southampton. 234/37, Office of this Paper.

FOR Sale, modern-fitted and well-stocked Chemist's Business situated at fine commanding corner of main road; good residence, with every modern convenience, attached. Address, Charles D. Brighthouse, Chemist, 330 Beverley Road, Hull.

£600.—GENUINE old-established Chemist's Retail and Dispensing Business; returns £750 under management; good stock; proprietor retiring; investigation invited; market town, Norfolk. "Chemicus," c/o Sanger & Sons, Winsley Street, Oxford Street.

£800.—SHEFFIELD.—Good-class Retail, Dispensing, and Prescribing Business, returning £800, steadily increasing; well stocked and in excellent position in residential suburb; good and convenient house, with plenty of warehouse room, held on long lease. Full particulars on application to M. W. J. (234/10), Office of this Paper.

BUSINESSES WANTED.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

MIDLANDS.—Advertiser has just sold his business in S. London, and wishes to purchase one in Midlands, at once; good sound concern; price about £1,000, or one capable of increase; Warwick, Leicester, Northampton, Derbyshire, or surrounding counties preferred. "Promptitude" (237/6), Office of this Paper.

ADVERTISER requires a genuine Light Retail and Dispensing Business, worth from £400 to £700; a business which will bear most thorough investigation; England or Wales. Address, "Chemist," 71 Windsor Street, Liverpool.

PARTNERSHIPS.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

ACTIVE Partnership wanted by gentleman, thoroughly conversant with the requirements of Medical Men and Chemists, in sound, well-established Business; advertiser is well accustomed to interview medical men and chemists, and can influence a certain amount of business; vacancy of retiring partner preferred. A. Newton, Box 340, Manchester.

PARTNERSHIP, &c.—Gentleman, aged 43, qualified Chemist, desiring employment where the investment of a few hundred pounds would secure him a permanent situation with a reliable firm; Bank reference. Address, 137/4, Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

Advertisers whose Announcements appear under this heading can make arrangements to see applicants for the situations at our Offices, by giving a few days' notice to
THE PUBLISHER, 42 Cannon Street, E.C.

RETAIL.

BAKEWELL.—Wanted, a qualified Assistant; outdoors; close 4 o'clock on Thursdays; no Sunday duty. Please state age, height, and salary required, to E. G. Carrington, Chemist, Bakewell.

BARNSELY.—Junior Assistant (outdoors), unqualified, for General Mixed business; weekly half holiday; no light or Sunday duty. State age, experience, salary required, and references, Nash, Pharmaceutical Chemist, 2 Queen Street, Barnsley.

BIRMINGHAM.—Wanted, experienced, middle-aged, qualified Manager for Cash business; one able to increase present returns, and accustomed to working-class district; able to Extract essential. Apply, personally if possible, or by letter, with full particulars of experience, references, and salary required for both indoors (if married) or outdoors; good house if living in. Address, J. McLanachan, 165 Hsley Road, Edgbaston, Birmingham.

BIRMINGHAM AND DISTRICT.—Two smart Juniors required; good salary and commission. Apply with full particulars, Magor (Limited), Old Square, Birmingham.

BLACKBURN.—Wanted, a qualified Assistant (outdoors) for a Branch shop doing a nice Mixed business. Address, "Chemist," 132 Bank Top, Blackburn.

BOLTON.—Junior wanted, immediately; one preferred with knowledge of Photography; half-holiday every week. Waller & Riley (Limited), Bolton.

BOURNEMOUTH.—Active Junior wanted. State age, height, references, salary required (indoors), and enclose photo, to Gilbert & Hall, Chemists, Bournemouth.

BOURNEMOUTH.—G. E. Bridge & Co (Limited) require by August 7 a qualified Junior; indoors. Give all particulars on application.

BRIGHTON.—Assistant, about 23, accustomed to good-class Dispensing and Retail. State age, height, experience, and carte, to John Miller, 4 Victoria Road, Brighton.

BRIGHTON.—Junior Assistant in high class Dispensing business; applicants should be good Dispensers, and be able to assist at counter; liberal salary to smart, energetic man. Enclose photo, and give fullest particulars of age, height, experience, &c., to Kilby, Pears & Son, Chemists, Hove.

BRIGHTON.—Wanted, an Assistant (indoors) for first-class Dispensing and Light Retail business; good dispensing experience essential. Fullest particulars, with photo (to be returned), to Jeeves & Son, Brighton.

CAPE COLONY.—Assistant, immediately; must be single, possess the Minor qualification, about 25 years of age, and have had good experience in a Country business; also a good and neat Dispenser; steady and sober habits indispensable; salary, 1st year, £140 per annum; 2nd year, £150; 3rd year, £160; sleeping accommodation provided or equivalent (outdoors), but to find own board; second-class passage paid out, conditional on a 3 years' agreement being signed. Address, "Cape," c/o Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

CAPE TOWN.—Qualified Assistant wanted, for first-class firm of Chemists, not over 25 years of age; salary £12 per month first year, £13 10s. second, and £15 third, and in addition small commission on business done, paid to good man; room supplied, but not board; second-class passage paid; 3 years' agreement. Apply, stating experience, to G. H. (237/25), Office of this Paper.

CARDIFF.—A temporary Junior Assistant wanted, for a fortnight; outdoors. Apply, with all particulars, to Duck & Son, Chemists, Cardiff.

CHATHAM.—Wanted, immediately, a competent Assistant. Send usual particulars to Cook, Chemist, Chatham.

CHINA.—Wanted, a thoroughly competent Assistant; must have had good experience in first-class Dispensing and Retail; 4 years' agreement; passage paid out and home. Address, "Export," 64 Crutched Friars, E.C.

CITY.—Assistant wanted, aged about 24. H. N. Davidge, Imperial Buildings, Ludgate Circus, E.C.

CLACTON-ON-SEA.—Assistant (young) required; used to quick Cash trade; indoors or out; light and pleasant business, with ample time for recreation. Apply, with usual particulars, to F. H. Exon, Chemist, Clacton.

CLACTON-ON-SEA.—Junior Assistant wanted for 3 or 4 months. Send photo and full particulars to W. Mann, Chemist, Clacton-on-Sea.

CLEVEDON.—Assistant, about 23 or 24, with experience in high-class Dispensing and Retail. Full particulars to Hart, Pharmaceutical Chemist, Clevedon.

CROYDON.—Wanted, an Assistant (outdoors). Apply, giving full particulars, to D. P. Roberts, Drug and Chemical Store, 120 North End, Croydon.

DOLGELLY.—Wanted, about the middle of August, an Assistant in a Retail business; a good Counterman and neat Dispenser; total abstainer and Welsh indispensable; comfortable home and reasonable hours. Apply, stating age, salary, and references, to R. Wynne Williams, Chemist, Dolgelly.

DONCASTER.—M. H. Stiles, Pharmaceutical Chemist, requires a qualified indoor Assistant, who has been accustomed to a good-class Family business; aged about 23. Apply, with full particulars of age, height, salary, previous experience, &c., and enclose portrait (to be returned).

DURBAN.—Qualified Assistant wanted; salary £15, £16, £17 per month for 1st, 2nd, and 3rd years respectively; agreement to be signed; second class passage paid; room supplied, but not board. Apply, E. A. F. (237/24), Office of this Paper.

EXETER.—Manager, qualified, for Branch shop, required within next 2 or 3 weeks. Particulars as to age, height, references, &c., with photo if convenient, to Holman, Ham & Co., 74 High Street, Exeter.

EXETER.—Broom & Reid require, early in August, Junior Assistant, about 20, of gentlemanly appearance and good address; must be able to Dispense well. Please give full particulars, enclosing photo (to be returned).

EXETER.—For high-class Light Retail, early in August; qualified; under 20; Dental and Photographic experience preferred; outdoors; good progressive salary to pushing business man. Apply, enclosing photo and full particulars, to X. (236/13), Office of this Paper.

FOLKESTONE.—Wanted, at once, Junior Assistant, aged about 21, one who has been accustomed to first-class Dispensing business. Apply, with full particulars of experience, age, height, references, salary required, and enclose photo, to Hall & King, West Cliff Pharmacy, Folkestone.

GUERNSEY.—Junior Assistant; outdoors; young, active, and industrious; one just out of his apprenticeship suitable; short hours, no Sunday duty; abstainer preferred. Apply, stating age, reference, and salary required, with photograph, to Henry J. Camber, Pollet, Guernsey.

HADFIELD.—Wanted, a Junior Assistant, about 21 years of age. Apply, with full particulars as to age, salary required, and enclose photo, to Richardson, Chemist, Hadfield, Derbyshire.

HASTINGS.—Immediately, Assistant, qualified, and accustomed to good-class business; permanent berth for suitable man. Apply, with carte and usual particulars, Jameson, 1 Harold Place, Hastings.

HEREFORD.—Wanted, an Assistant, for Dispensing and Retail. State age, height, with salary and other particulars, Williams, Chemist, Hereford.

HORSHAM.—Junior, about 20; good address; outdoors; 2 kept; Light Retail, Dispensing, Photographic; half-day weekly; no Sunday duty. Usual particulars and photo to Brassington, Horsham.

LEICESTER.—Wanted, Junior. Please send all particulars, salary required, age, experience, and references, to Fredk. G. Brice, Chemist, 124 Hummerstone Road, Leicester.

LINCOLN.—An Assistant (indoors), aged about 21; hours light. Apply, with full particulars as to age, experience, references, salary, to W. E. Hill, Pharmaceutical Chemist, Lincoln.

LIVERPOOL.—Qualified Assistant, about 22 or 23, accustomed to good-class Retail and Dispensing. State age, height, salary, and when disengaged, to Strick, Pharmaceutical Chemist, Upper Brighton, Liverpool.

LIVERPOOL.—Wanted, at once, Part-time Assistant for Light Retail; suitable for Minor student. Jones, 47 Hall Lane, Liverpool.

LONDON, S.E.—An Assistant, end of present month, for Retail and Dispensing; time allowed for study or recreation; salary £40 to commence; indoors. Apply, with full particulars, Francis E. Flitt, Chemist, 5 Peckham Rye.

LONDON, N.W.—Junior or Improver; indoors; ample time for study and one or two days weekly to attend classes if required; no Sunday duty and Bank holidays free. Apply, Manager, British and Colonial Drug Stores, 1 Eton Terrace, Church Road, Willesden N.W.

LONDON, W.—Junior Assistant; indoors; high-class Dispensing and Store business; reasonable hours and very little Sunday duty. Apply, with usual particulars, to Chas. W. Bramwell, Pharmaceutical Chemist, 118 Holland Park Avenue, W.

LONDON, S.E.—Wanted, smart, qualified Assistant, to push middle-class business; comfortable home, salary and commission; opportunity to learn photographic branch. Letters only, to Frank, 41 Princess Square, Kennington, S.E.

LONDON, E.—Dispenser wanted (indoor); evening work only; would suit student reading for Exam. Apply, S. & Y., 413 East India Road, E.

LONDON, S.E.—Junior, about 21, wanted, during holidays, for about a month, first week in August. Apply, Frost & Harrison, 3 Eatham Road, Blackheath, S.E.

LONDON, S.E.—Qualified residential Manager required for old-established Pharmacy and Photographic Store; must be well recommended, of good address, and up to date. Applications (which should give fullest particulars and references) not answered in 3 days declined. Arkholme, 18 Laurence Pountney Hill, E.C.

LONDON, N.W.—Qualified Assistant; indoors; aged about 22; must be a thoroughly reliable Dispenser, and have had good Counter experience; 2 kept. State salary required, height, and full particulars, and enclose carte if possible, T. F. E., c/o Messrs. Heaton, Squire & Francis, 38 Southwark Street, S.E.

LONDON, S.E.—Outdoors.—Junior Assistant wanted; good Counter-man and with good general experience; vacancy also for Improver or Apprentice. Green & Co., Wholesale and Retail Chemists, 36 Lower Marsh, S.E.

LONDON, S.W.—Assistant (outdoors) wanted for good-class Retail and Dispensing business. Enclose carte with particulars, or apply, E. Anstee Turner, 220 Fulham Road, S.W.

LONDON, N.—Wanted, smart Assistant for good-class business; indoors. Address, giving full particulars, or apply personally, to S. Briggs, Broadway Pharmacy, Crouch End, N.

LONDON.—Wanted, Junior Assistant, 21 to 24, indoors. Apply personally, if by letter give full particulars, W. Hairsine, 52 Wardour Street, W.

LONDON, N.E.—Quick steady Assistant required, outdoors, for Light Retail; good counterman, and competent to take sole charge if required; one seeking permanency preferred; weekly half-holiday. Apply, stating age, height, experience, salary required, to Beaton & Co., Chemists, 84 Dalston Lane, Kingsland, N.E.

LONDON, W.—Junior or Improver; outdoors; hours 8.30 to 9.30, 10 P.M. Saturdays; early evening weekly at 5 P.M.; must be good packer and stockkeeper. Full particulars to "Statim" (233/31), Office of this Paper.

LONDON, S.E.—Immediate, Manager (single-handed, except messenger), qualified, for new business; must be smart man and good prescriber; Thursday evenings and Sundays free; salary £2 and bonus. "Delta" (137/36), Office of this Paper.

LONDON, S.E.—At once, smart Counterman, one with knowledge of Photography preferred, for Store trade; salary and commission; half-holiday weekly. Apply, with full particulars and references, 137/42, Office of this Paper.

LONDON, N.—July 30; active Junior, about 23, of good address, for modern business; outdoors. Apply, Talintyre, 144 Stroud Green Road, Finsbury Park, N.

LONDON, N.—Qualified Assistant required immediately (indoors); owing to death of late proprietor, the Business, including several well-known and good paying Proprietaries, would be disposed of to a suitable man on very easy terms; a good business has been and may be done. "Pharmacy," 94 Richmond Road, Barnsbury.

LONDON, S.W.—Wanted, smart energetic Junior, for Light Retail and Dispensing business; indoors. Address, with full particulars, Pretty, Pharmaceutical Chemist and Dentist, 235 North End Road, S.W.

LONDON.—Competent qualified Assistant, used to a good-class business, required at once; moderate hours and weekly holiday; salary, &c., to commence at £120; references to bear investigation. State age and usual particulars, in first place to "Iridin" (237/26), Office of this Paper.

LONDON, S.W.—Wanted at once, an unqualified Assistant for a quick Cash business; must be a good and obliging Counterman, and able to Prescribe; half-holiday weekly; wages 35s.; permanent situation to a suitable man. Apply, stating height, age, &c., to "Druggists" (237/4), Office of this Paper.

LONDON, N.W.—Outdoors; Junior Assistant wanted at once for best-class Drug Stores; also a Junior wanted for Branch at Croydon. Apply personally, or by letter, giving full particulars of age, height, experience, salary required, &c., to "Manager," 265 Finchley Road, South Hampstead, N.W.

LONDON, S.W.—Wanted, a good Stockkeeper with Store experience; young man. Francis & Son (Limited), 450 Brixton Road, S.W.

LONDON, W.—Wanted immediately, an able Assistant, to manage a large Chemist's business at Shepherd's Bush; applicants must have sound character and businesslike habits, with two good references from last employers; salary 50s. weekly and a good commission. Apply to Henry Squire, 61 Goudge Street, W.

LONDON, N.E.—Required, a qualified Assistant, for a Cash business; closed on Sundays and Bank holidays, and off one day each week at 2 P.M.; outdoors. Full particulars to H. J. O., 33 B'oke Road, Dalston, N.E.

LONDON, S.E.—Junior or Improver wanted, soon; hours 9 A.M. to 9 P.M., and weekly half-holiday; outdoors; very little extra duty; preference given to one who has just finished his apprenticeship. Apply, giving full particulars, to R. B., 43 Parker's Row, Bermondsey, S.E.

LONDON, N.E.—Immediate, smart Junior; knowledge of Photography preferred; quick Store trade; good references indispensable; permanency to suitable man; personal interview. Edmunds, 33 High Street, Kingsland.

MANCHESTER.—Senior Assistant (indoors), about 26, required for high-class Retail and Dispensing business. Address, stating age, height, references, salary, &c., and enclosing photo (which will be returned), to T. Woodruff, Pb.O., Witlington.

MANCHESTER.—J. Woolley, Sons & Co. (Limited), have a vacancy (outdoors) for a qualified Junior Assistant. Applicants should state their age, height, references, and salary required, also forward photo if possible.

MERTHYR TYDFIL.—At once, Junior or Improver; one accustomed to the Photographic trade preferred. Apply, stating age, height, and salary required, to Rees Thomas & Son, Merthyr Tydfil, Glam.

NAILSWORTH.—Wanted, a Junior Assistant, for Retail and Dispensing business; one just out of his time would be treated with. Apply, with particulars, J. H. V. Wilkinson, Chemist, Nailsworth.

NEWARK.—Junior or Improver, about August 16, for Light Retail and Photo trade; 3 Assistants kept. State experience, age, and full particulars in first letter, enclosing photo, to Jno. H. Smith & Co., Newark.

NEWPORT.—Assistant (outdoors) with good knowledge of photography. State age, experience, salary required, and enclose photo, to Phillips & Son, Pharmaceutical Chemists, Newport, Mon.

NORTHAMPTON.—Wanted, a good business Assistant with experience of Country trade. Please state age, reference, salary (indoors), E. C. Ashford, Chemist, Northampton.

NOTTINGHAM.—Wanted, qualified man to manage Branch; must have good all-round knowledge of Country business, including Photography, Tooth-extracting, &c., and be good Salesman; total abstainer preferred. Fred Coates, Nottingham.

OLDHAM.—Wanted, Junior Assistant, about 20, for quick Counter trade. Address, with full particulars as to wages, experience, and references, with photo, if possible, 232/30, Office of this Paper.

PLYMOUTH.—Assistant (indoors); also an Improver. W. Condy U'ken, 55 Cobourg Street, Plymouth.

SCARBOROUGH.—Junior, at once; knowledge of Photography preferred. Enclose photo, and give full particulars in first letter, Parker & Cross, Ramshill Road.

SHANGHAI.—Qualified Assistant wanted, for old-established business; young Scotchman preferred; 4 years' agreement to be signed; salary £10 sterling per month for first year, £11 second, £12 third, and £13 fourth; board and lodging provided, but no liquors; second-class passage paid. Apply, stating experience, to "Shanghai," c/o John Murdoch & Co., 52 Leadenhall Street, E.C.

SHREWSBURY.—Experienced Assistant, good Dispenser, not necessarily qualified (indoors), early in August. Apply, with photo if convenient, to Blunt, Chemist, Shrewsbury.

SIDMOUTH.—Wanted, at once, smart Junior or Improver; outdoors; one used to Store trade preferred; hours easy. J. Hinton Lake, Pharmaceutical Chemist.

SOUTHAMPTON.—Wanted, immediately, a qualified Assistant, for good-class business; also a Junior. Enclose carte (to be returned), J. Johns & Son, Chemists, Southampton.

SOUTH AFRICA (Healthy Town).—Assistant required, for early part of March; must be thoroughly reliable, competent, and preference given to one with Wholesale experience; steady and sober habits are most essential; aged about 23; single, and of good health; Minor qualification; salary, £12 10s. per month first year, £13 10s. second year, £15 third year, payable monthly; without board, and outdoors; second-class passage paid out, with personal expenses on board; 3 years' agreement. Address, "South Africa," Messrs. Evans, Lescher & Webb, 60 Bartolomew Close, London, E.C.

SOUTH-EAST COAST.—An Assistant wanted for about eight weeks. Full particulars to 229/12, Office of this Paper.

ST. ANNE'S-ON-THE-SEA.—Indoor Assistant, about 22, of smart appearance and address, for first-class Dispensing business; qualified man preferred, but not essential. Applicants please state age, height, references, salary required, and particularly enclose photo, J. H. Taylor, St. Anne's-on-the-Sea.

ST. HELENS.—Junior, for cash trade; suitable youth would gain valuable experience; no Sunday or Bank holiday duty; weekly half-holiday. In reply, to save correspondence, state age, experience (with whom), if knowledge of Photography, if abstainer, salary required, outdoors, J. G. Wallbridge, Central Pharmacy, St. Helens.

ST. JOHN'S WOOD.—Part-time vacancy offered to gentleman desirous of reading; light duties in good-class business, with the afternoon off for study, or, if desired, its equivalent in exchange once or twice weekly for evening classes. State usual particulars to G. Dauncey, 6 Nugent Terrace, St. John's Wood, N.W.

STAFFORD.—Wanted, a Junior Assistant, with good experience; outdoors; one with a knowledge of Photography preferred. J. & H. A. Averill, Pharmaceutical Chemists, Stafford.

TONBRIDGE.—Wanted, a smart Junior, indoors, for Dispensing, Retail, and Photographic business. State age, height, salary required, giving references and enclosing photo (to be returned), F. G. Abel, 124 High Street, Tonbridge, Kent.

UGANDA PROTECTORATE.—Appointment of six Dispensers will shortly be made; salary £175, with free quarters; three years' engagement. Applications to be made in writing, giving full particulars, to The Superintendent, Apothecaries' Hall, London, E.C.

WEM.—Wanted, for first week in August, an indoor Assistant, used to Agriculture and Dispensing business; not necessarily qualified; must be a good Prescriber, and of industrious and steady habits; hours very short; no Sunday duty. State particulars, salary required, and enclose photo, to Morgan & Son, Chemists, Wem, Shropshire.

WELLINGTON (Shropshire).—Wanted, for August 3, Assistant, to take charge of Drug Counter in a large Country business; liberal salary. Ison & Sons (Limited), Wellington, Shropshire.

WHITEHAVEN.—Wanted, reliable Assistant, principally for Dry-saltaries; outdoors; abstainer preferred. Grayson, Ubbemist, Whitehaven.

WIDNES.—Wanted immediately, a good Junior (indoors) for Mixed business; hours 8.30 A.M. to 8 P.M.; Thursdays to 1 P.M., Saturdays to 10 P.M. Apply, stating age, references (which must be unexceptionable), and salary required, to S. B., 10 Albert Road, Widnes.

WINDSOR.—Junior Assistant (outdoors) for high-class business; must be of good address; salary £100 per annum; weekly half-holiday. Apply, with full particulars, to R. Wood, Pharmaceutical Chemist, Windsor.

SITUATIONS OPEN—cont.

RETAIL—continued.

WOTTON-UNDER-EDGE.—Wanted, immediately, a Junior Assistant for a Country business. Apply, with fullest particulars, to Frank Portlock, Chemist, Wotton-under-Edge.

YORK.—Wanted, indoors Assistant; one accustomed to Mixed Family business preferred; not necessarily qualified; capable salesman; good address; obliging; comfortable home; private sitting-room; liberal arrangements for recreation; Sundays free; salary £40 to £50, according to fitness. State age, experience, &c., with photo if convenient, Saville & Sons, York.

A QUALIFIED Dispenser wanted by Lewis & Burrows (Limited) for West-end Branch. Apply at 22 Great Portland Street, W. If application is made by letter, kindly enclose photograph.

ASSISTANT (qualified); salary and commission; outdoors; North of England. Address, with references (copies only), "N. O. E." (236/16), Office of this Paper.

ASSISTANT, of gentlemanly appearance and address, required early as possible; qualification not necessary; good salary and commission to suitable applicant. Reply, in confidence, to "Jalapin" (237/27), Office of this Paper.

ASSISTANT-DISPENSER, for a London Hospital, wanted by October; would suit one working for the Minor exam.; experienced preferred; good references. Apply, X. Y. Z. (135/57), Office of this Paper.

COMPETENT Assistant, about 26, required for Counter and a little Dispensing, in good-class Store business; outdoors; easy hours, half-holiday weekly; must be thoroughly capable man, with unquestionable references; one seeking permanency preferred. Apply, "Manager," 3 Park Street, Walsall.

DISPENSER wanted, for a few weeks, from August 4, accustomed to medical practice. State salary required and references, to "Bousim" (235/27), Office of this Paper.

FASHIONABLE Seaside Resort near London. — Wanted, qualified Senior Assistant; unmarried; about 35 years of age; must be an excellent Counterman, and have been accustomed to take the lead in a high-class Pharmacy conducted on thorough business principles. Advertisers require an energetic, business-like, reliable Pharmacist, to whom they could with confidence frequently leave the control of a high-class Dispensing business; fullest particulars must be given in first instance, and photo sent (to be returned); applicants will be required to sleep on the premises, but board out; the appointment offers excellent prospects to a smart, well-trained man, with liberal salary at commencement. "Phenazone" (236/11), Office of this Paper.

GOOD up-to-date qualified Manager wanted, at once; liberal terms to first-class man. Apply, Magor (Limited), Old Square, Birmingham.

LOCUM.—Dispenser required for a London Hospital, from second week in August; qualified; hours about 10 to 6. Apply, X. Y. Z. (135/57), Office of this Paper.

LOCUM TENENS for August 13 to 27; outdoors. Send full particulars as to remuneration, with references, to McKee, Chemist, Tunstall, Staffs.

MANAGER, qualified; a pushing young man, with Store experience, to live on the premises, and with a view to purchase, if desired; this is a very good opportunity. Apply, with full particulars, to F. E. J., 11 Blanket Row, Hull.

ON or about August 13, a competent Assistant; indoors; qualification not essential; early afternoon once a week. Apply, stating age, height, references, and photo (to be returned) to "Syphon," c/o Davy, Hill & Co., 64 Park Street, Southwark, London.

QUALIFIED, or otherwise, for Mixed business; able to Extract. Apply, with reference, Stubbs, Chemist, South Bank.

UNQUALIFIED Assistant; outdoors; mixed Country business. State salary, G. Myers & Co., Welton, Brough, E. Yorkshire.

UNQUALIFIED Assistant, about 24, required. K. (237/36), Office of this Paper.

WANTED, Manager, qualified, for Mixed Country business; hours easy. "Radix," Mexboro'.

WANTED, Assistant (good Junior not objected to); unqualified; indoors; hours 8 to 8. Saturdays 9.20, no Sunday duty; weekly half-holiday. State all particulars, with photo, to G. L. Douthwaite, Newport, Shropshire.

WANTED, at once, a Junior Assistant; must have good references for steadiness, honesty, &c.; aged about 24; salary 2 guineas a week (outdoors); single. 233/18, Office of this Paper.

WANTED, Manager for Branch; good house attached; permanency. Write full particulars of experience, age, and salary required, also send photo (if possible), and references to "Rex" (234/21), Office of this Paper.

WANTED, a Junior Assistant, as Locum, from August 9, for three weeks; outdoors. Apply, 137/41, Office of this Paper.

SUSSEX COUNTY HOSPITAL, BRIGHTON.

WANTED, an Assistant Dispenser (Male), Minor qualification; hours, 9.30 a.m. till 4 p.m.; dinner provided; salary £70, rising to £80 by £5 yearly. Apply to E. Fenner, Senior Dispenser.

WHOLESALE.

A WHOLESALE firm of Manufacturing Druggists require a responsible Representative to work the Midlands and Lancashire: connection already established. Applications must give full particulars as to experience, references, &c., 231/26, Office of this Paper.

LABORATORY (Wholesale Druggist's).—Wanted, experienced working Foreman; thorough practical knowledge absolutely necessary. Apply by letter, stating age, previous engagements, and salary required, to A. Z. (137/55), Office of this Paper.

PROVINCIAL firm of Manufacturing Chemists require a qualified Chemist to superintend the manufacture of up-to-date Pharmaceutical Preparations. Apply, stating age, experience, and salary required, to "Salol" (133/60), Office of this Paper.

WANTED, Second at Wet Counter. Apply, by letter, with full particulars, to "Manager," Corbyn, Stacey & Co. (Limited), 300 High Holborn, W.C.

WANTED.—A competent Pharmacist, with some capacity for Management, is required in a Wholesale house; Major qualification essential; only those who have had first-class experience, preferably Wholesale and Retail, and who are capable business men, need apply; very full particulars must be given in the first application. Apply, "Major," c/o T. Dixon's Advt. Offices, 195 Oxford Street, W.

YOUTH wanted as Bottle-boy in Wholesale Druggists' Sundries house; wages to commence 12s. Apply by letter, "Bottles," 2 Winsley Street, London, W.

YOUTH required, immediately, for Wholesale house; must be well up in Patents and Sundries; aged 17 to 19; also young man as Packer; past experience necessary. Apply or reply to Day's Drug Co. (Lim.), 80 Borough Road, S.E.

APPRENTICESHIPS.

A YOUTH wanted as Apprentice to the Drug business; an exceptional opportunity for acquiring a thorough knowledge of it; one who has passed the Prelim. exam. preferred; outdoors or indoors. Apply, A. Shepperson, Chemist, Swineshead, Lincs.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 6 words beyond.

RETAIL.

LOCUM or Part-time; unqualified; 27. Apply, Hughes, 21 Formosa Street, W.

PART-TIME; disengaged 10 to 4 daily. "Student," 167 Kennington Road, S.E.

IN or near London; disengaged; 28; married. "Drugs," 57 Denham Road, Egbam.

JUNIOR; 24; 5 ft. 7 in.; country. G. K., c/o Caunt, 11 Bridge Avenue, Newall, Otley.

LOCUM; disengaged Wednesday next; qualified. "Chemist," 32 Laurel Grove, Penge.

LOCUM; qualified; 27; disengaged; experienced. "Reliable," 395b, Edgware Road, W.

LOCUM; M.P.S.; town or country; disengaged. William Smith, 12 Westfield Road, Surbiton.

WANTED, situation as Dispenser to a Surgeon; country preferred. Powne, Amesbury, Wilts.

LOCUM; Hospital or Surgeon's; Hall qualification. "Femur," 17 Gordon Place, Kensington.

DISENGAGED for a few weeks; experienced, including Photography. H., 13 Thorngate Road, W.

ELDERLY Registered Chemist; very small salary. James, 2 Skipton Street, Southwark, London.

AS Manager.—Qualified Chemist seeks engagements, or as Buyer. 235/13, Office of this Paper.

ASSISTANT; Apothecaries'; 27; 5 ft. 7½ in.; good references. Holmes, South Ormsby, Alford, Lincs.

TEMPORARY Assistant or Locum-tenens; unqualified; 23; tall. M., 4 Crystal Road, Blackpool.

QUALIFIED; 34; disengaged; good experience; outdoors. "Beta" (236/10), Office of this Paper.

AS Dispenser; aged 24; unqualified; good experience. "Iron" (236/17), Office of this Paper.

LOCUM or Part-time during August; qualified; 28. Dennis, 9 Station Parade, Willesden Green, N.W.

ASSISTANT, or Branch Manager; qualified; 25; tall. Morrison Collins, Jordan Well, Coventry.

LADY Dispenser, qualified, desires engagement. E., 29 Blenheim Crescent, Notting Hill, London.

LOCUM: disengaged for 3 weeks; good experience; 23. Barber, 20 Durand Gardens, Clapham Road.

LOCUM-TENENS: qualified; reliable; 55; disengaged August 7. Jones, Medical Hall, Tylorstown.

ASSISTANT: qualified; 30; outdoors preferred. "Springfield," 4 Portland Place, Clifton, Bristol.

LOCUM: Coast only: August 12 to 26; varied experience; reliable. W., 73 High Street, Gravesend, Kent.

UNQUALIFIED: outdoors; 31; good Counterman, Dispenser, Extractor. H., 19 Kappock Street, Cardiff.

LOCUM, qualified, or Manager with view to succession; disengaged August 9. 2 Elysian Terrace, Guernsey.

ASSISTANT: unqualified; 23; London experience. "Statim," 11 Sharsted Street, Kennington Park, S.E.

AS Assistant; disengaged August 4; height 5 ft. 5 in.; aged 26; references. N., 39 Robertson Street, Hastings.

LOCUM: unqualified; 26; disengaged till October: good references. "Chemist," 3 Oxford Street, Middlesbrough.

CHEMIST-DENTIST: qualified; disengaged; temporary or permanent. 114 Rokeby Street, Stratford, Essex.

JUNIOR: 22; Manchester or Midlands; in good-class Retail and Dispensing. W. S., 8 Hill Street, Stourbridge.

ASSISTANT: 23; unqualified; all-round experience, Dispensing, Photography, &c. 235/11, Office of this Paper.

ASSISTANT: 7 years' high-class experience; short hours, or time for study. "Kino" (234/24), Office of this Paper.

QUALIFIED: 26; tall; first-class English and Continental experience; disengaged. Robinson, Lynwood, Bacombe.

LOCUM or Assistant; first-class experience and references; 27; height 5 ft. 11 in.; disengaged. Munton, New Street, Oakham.

ASSISTANT requires temporary work in a good-class business; outdoors preferred. Evans, 30 Olitheroe Road, Clapham, S.W.

SENIOR: unqualified; good references; up-to-date experience; aged 23; height 5 ft. 7 in. Watson, Fleet Street, Torquay.

OUTDOORS.—Student requires Evening engagement; good references; Dispenser. "Inula" (233/37), Office of this Paper.

LOCUM or Temporary: qualified; disengaged; Prescriber, Dispenser, Extractor. G., 99 Hangingwater Road, Ranmoor, Sheffield.

QUALIFIED seeks berth home or abroad; aged 24 years; good all-round experience. Davies, Tywyth, Pontardawe, Glam.

JUNIOR: 21; 6½ years' experience in good Family and Dispensing business; height 5 ft. 8½ in. Bull, 21 Harpur Street, Bedford.

ASSISTANT: 13 years' experience; good reference; unqualified. Rogers, Gourd Cottage, Monkseaton, near Newcastle-on-Tyne.

LOCUM: good Prescriber; expert Extractor; disengaged until August 6; whole or part. L., 32 Spondon Road, South Tottenham.

LOCUM: Qualified; Registered for Jersey and Guernsey; at present in Guernsey; disengaged August 9. 2 Elysian Terrace, Guernsey.

"VERB. SAP." (216/23)—vide last week's Supplement—still open to correspond with view to Managership. 235/2, Office of this Paper.

HINDU Student (24), tall, good appearance, as smart Junior or Assistant; hours daily for reading or classes; indoors. 232/33, Office of this Paper.

DISENGAGED: good Operator and Extractor; 30; unqualified; also willing to Assist in Chemist's shop. Particulars to X., 27 Upper Park Street, Islington.

AS Junior in Retail and Dispensing establishment; aged 20; Manchester preferred; good references. Hudson, 16 Shrewsbury Street, Old Trafford, Manchester.

MANAGER or Locum: 20 years' experience; best references; abstainer; married; disengaged 30th. Turner, Chemist, Dentist, 71 Sussex Road, Holloway, N.

MANAGER (middle-aged): fully qualified; registered Dentist; disengaged; widower; over 18 months last situation. "Bonus," 49 Park Road, St. James, Northampton.

QUALIFIED Chemist, married (35), experienced, reliable, seeks Managership, London or suburbs; unexceptionable references. "Capable" (233/40), Office of this Paper.

MANAGER: qualified; Extractor; excellent testimonials; aged 38; married; no children; own furniture; permanency. Munro, 64 Normanton Terrace, Newcastle-on-Tyne.

CANADA.—Englishman, 22, 5 ft. 11 in., unqualified, abstainer, satisfactory testimonials, desires situation in Canada: spent 9 months visiting before. "Pot. Bitart." (231/4), Office of this Paper.

ASSISTANT or Manager; unqualified; 29; tall; experienced; energetic; abstainer; good references; Dispenser and Prescriber. "Chemicus," Hilltop, Stapleton, Bampton, Cumberland.

ASSISTANT Manager; good all-round experience, London and country; permanency; country preferred; married; own furniture; family small. "Antipyrin" (234/29), Office of this Paper.

QUALIFIED (26), abstainer, seeks good permanency as Manager or position of trust: country town, North preferred; outdoors, or house attached; excellent references; or as Assistant to principal desiring trustworthy relief. Apply, 234/20, Office of this Paper.

BRANCH Manager or Locum; qualified; middle-aged; single; Prescriber; Extractor, on Dental Register; good experience and references; disengaged. "Onemist," Woodbue House, Wolsingham, R.S.O., co. Durham.

BRANCH Manager; qualified; 45; married, no family; long and varied experience in London and provinces; good Dispenser and Prescriber; thoroughly reliable and trustworthy; disengaged. "Nemo," 30 Merchant Street, Bulwell, Nottingham.

QUALIFIED Chemist, married, aged 36, requires Managership or similar appointment; Hull district or Lincolnshire; suburbs or country town; varied experience, and, in addition to Dispensing and Family Retail, used to manufacture of Aërated Waters, Agricultural trade, and local Wholesale; 12 years doing good-sized business on own account; present appointment, branch manager; excellent references from present employer and others. Address, "Permanency," c/o Brighthouse, Chemist, Suffolk Street, Newland, Hull.

WHOLESALE.

GENTLEMAN, with first-class Wholesale experience, desires position of trust; aged 27. 235/15, Office of this Paper.

TRAVELLER, disengaged, is open to represent good house in Drugs or allied. J. C., 76 Crocketts Road, Handsworth, Birmingham.

MAJOR man desires to acquire commercial experience in Wholesale Drug-house; satisfactory references. "Bismuth" (235/39), Office of this Paper.

REPRESENTATIVE to good house; sound connection with Chemists' Stores and large buyers in London and suburbs. "Tritill" (231/20), Office of this Paper.

PHARMACEUTICAL Chemist (24) desires engagement with a firm of Wholesale Manufacturing Chemists; excellent references; first-class Retail experience; nominal salary; London preferred. "Salophen," 3 Bedford Place, W.O.

GENTLEMAN, representing London Drug-house over a large area, would like to represent another house (in any branch not clashing); part expenses and salary; good opportunity for introducing Specialities, Taylor, 13 Barratt Street, Southport.

PHARMACEUTICAL Chemist (26), desires engagement as Analyst in Wholesale Laboratory; until recently Demonstrator in Practical Chemistry at a School of Pharmacy; knowledge of milk, water, and urine analysis, and general quantitative work. M.P.S., 78 Princes Road, Middlesbrough.

COMMERCIAL Manager.—Gentleman with experience, energy, and a very successful record, is open to take complete control of commercial part of an important manufacturing firm or company; good organiser, advertiser, and accountant; unexceptionable references, Address, "Excel," c/o May's Advertising Agency, 21 St. Bride Street, E.C.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

DAISY (LIMITED), Leeds, will be happy to advertise (at reasonable rates) in Chemists' Lists, &c., &c.

AGENCIES.—An old-established London firm of Wholesale Druggists' Sundriesmen, with town and country travellers, is open to take up one or two good Agencies for Proprietary lines or Specialities. Write fully, stating terms, &c., offered, to "Sundries" (134/13), Office of this Paper.

NERVE-KILLER.—To be applied to the cavity of the aching tooth on cotton wool. Painless. Harmless. In bottles, price 3s. per doz., oarled. A very saleable and reliable line. Purchasers invariably recommend it to others. 3-dozen lots, boxed, with customer's own name and address, at 3s. 6d. per doz. Sole agents appointed. Samples free. Evans Bros., 112 North End, Croydon.

SULPHUR-TABLETS and Sulphur and Sarsaparilla Tablets, in 7-lb. hinged and labelled boxes; 2 cwt. 33s. cwt., carriage paid; 1 cwt. 34s., ½ cwt. 18s., 28 lbs. 10s., carriage forward, prices and show-cards free; Sticky Fly-papers, your own name, 5s. gross, 5-gross lots carriage paid; Disinfecting Shells, 4s. 3d. gross, 5-gross lots £1. Christy & Co. (late White), Chemist, Leicester.

"BIG WHEEL" LEMONADE CRYSTALS & POWDER.—Delicious Fruit flavours. Retail profits protected. Crystals, in ornamental airtight and lined 2-oz. tins or hotties, 42s. per gross, less discounts; carriage paid everywhere. 6d. size Powders, 11-oz. package, 57s. per gross, less discounts, carriage paid. "Big Wheel" Health Salt, 4-oz. ornamental tins, 36s. per gross. H. W. Carter & Co. (Limited), Old Refinery, Bristol.

MISCELLANEOUS—cont.

COLCHICUM.—Fresh Roots ready for delivery shortly, in large quantities. For particulars apply, Viscount Portman's Estate Office, Taunton.

CHEMISTS' shop fittings.—12-feet run of mahogany-fronted drawers, with bevelled-edge glass labels, shelving cornice and lockers complete; 12 feet mahogany and plate glass serving counter; 6-feet dispensing screen with mirror centre and counter, with sponge case under; 8-feet mahogany and glass wall case; desk and perfume case; 5 feet bent plate-glass counter case; £55 the lot; all in perfect condition. Philip Josephs & Son, 54 Old Street, London, E.C.

CHEMISTS' Fittings.—High-class Fittings at Low Prices.—14-ft. Chemist side fitting, fitted 70 mahogany-fronted drawers, bevelled glass labels, cut-glass knobs, lockers, shelves, cornice, &c. complete £15 10s.; mahogany-top serving counter, plate-glass front, 10 ft. 6 in. long, £9 5s.; bent plate-glass counter-case, 5 ft. long, 80s. Cheap house for window enclosures, alterations, wall-cases, glass facias, and stall plates. Chemists fitted complete. Estimates free. Mills, Shop-fitter, Shop-front Builder, Steam Works, 163-165 Old Street, London, E.C. (late 233 City Road).

CUCUMBER AND GLYCERINE.

ROUSE'S Oenumber Paste is the best for preparing Cucumber Emulsion. Formulae and labels free with each jar; $\frac{1}{4}$ lb. (for 3 lbs. emulsion), 2s. 3d.; 1 lb., 4s. 3d.; 7 lbs., 25s., post free. Rouse, 61 Charlotte Street, London, W.

N.B.—Oenumbers actually enter into the composition of this article

CHEMISTS' Shop-fittings.—Ranges mahogany drawers, with bevelled-edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens; counters with glass-case fronts; wall-cases; bent-front and flat-top counter-cases; counter-desks; tooth-brush cases; complete shop-rounds, &c.; every requisite for Chemists, new and second-hand; extensive stock to select from, at extremely low prices; practical men sent to all parts; estimates free. Matthews, Chemists' Fitter, 14 and 18 Manchester Street, Liverpool: Works: 9 Preston Street. Telephone 6695. Illustrated Catalogue on application.

F. C. HILLS & CO.

NOTICE IS HEREBY GIVEN that the Chemical and Artificial Manure business carried on by us the undersigned James Charles Barclay Harvey, Edward Douglas Lennox Harvey, and Charles William Middleton Kemp as Executors and Trustees of the Will of Edward Henry Hills deceased at the Chemical Works Creek Street, Deptford in the County of Kent under the style or firm of F. C. Hills & Co. has as from the 30th day of June 1900 been sold by us to Mr. Thomas Herbert Hills who will continue to trade under the name or firm of F. C. Hills & Co. on his own behalf at the Chemical Works Deptford aforesaid. All debts due to and owing by us up to and inclusive of the said 30th day of June 1900 will be received and paid by the said Thomas Herbert Hills on our behalf.

Dated this 12th day of July 1900.

J. C. BARCLAY HARVEY.
E. D. L. HARVEY.
C. W. M. KEMP.
THOMAS H. HILLS.

Witness to the signatures of James Charles Barclay Harvey, Edward Douglas Lennox Harvey, Charles William Middleton Kemp and Thomas Herbert Hills Clement Stone-Wigg Solicitor 11 Queen Victoria Street E.C.

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Portable copper drying-oven, 12 in. square, cased door, 3 copper shelves, 33 lbs., never used, 30s. G. S., 7 Fishergate, Preston.

Soda-water machine and syphon-filler, hand or power, suitable for chemist. Can be seen working, 80 Lamb's Conduit Street, London, W.C.

First-class mineral-water plant, complete, for syphons and corked bottles, in good working order; any reasonable offer. HARVEY, Chemist, Acton.

Enterprise tincture press, 10s.; suppository-mould, 15-grain, 24 holes, electroplated, ss Maw's, 16s. 6d.; both equal new, carriage paid. WARNER, 333 Gray's Inn Road, W.C.

Orient soda-water machine, complete with syphon-filler, &c.; and Otto gas-engine, $\frac{1}{2}$ -h.p. nominal; to be seen working; only in use 12 months. EDWARDS, Chemist, Fallowfield, Manchester.

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Smith's Latin-English and English-Latin Dictionaries, 8s. W. S., 8 Hill Street, Stourbridge.

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Bargain.—4 oz. cocain. hydrochlor., 60s.; 1 lb. sulphonal, 18s. JOHNSON, Wellington Road, Leeds.

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Lemonade-powder, makes 6 gals., retails $7\frac{1}{2}$, costs 1s. 3d. doz.; formula, label, window-blill, 1s. EDWARDS, 99 Murdoch Road, Handsworth.

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Cameras.—No. 2 binocular, Zeiss lens, takes 18 plates, list price £11 11s., will take £5, or what offers? also No. 1 Monroc (new, quarter-plate), 3 double dark slides, and case for carrying, 29s. 6d. PERFECT, Chemist, Harlesien.

PROPRIETARY ARTICLES.

Ivory soap, $2\frac{1}{2}$ gross tablets; whole or part; what offers? APPLEBY, Chemist, Retford.

650 oz. Howards' sulphate of quinine, in 4-oz. bottles; what offers for whole or part? J. M., 32 High Street, Brecon.

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74 Camwal ordinary, 23s. 3d.; 71 preference, 25s. 232/21, Office of this Paper.

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Show-jar, 27 in., fig. 19 Maw's, perfect condition, enamelled green cover; what offers? ROGERS, Chemist, Wallasey Village.

Shoprounds, 120 mixed 20 oz. and 30-oz. N. and W., gold labels, fair condition; free cases, and f.o.r.; what offers? GOODLIFF, Bishop's Waltham, Hants.

Handsome glass-case fronted counters, and the stock and fittings, for removal, of chemist's shop. MORRIS, 331 West Green Road, near West Green Station, London, N.

MISCELLANEOUS.

For sale, cheap, Southall's materia-medica cabinet (collection D), good condition. Apply, MALLINSON, Chemist, 307 Oxford Street, Manchester.

3s. 6d. Macassar oil, 1s. 8d.; 6 doz. 2d. Ivory soap, 7s.; $\frac{1}{2}$ doz. 1s. gossamer, 3s.; 1 doz. 6d. swansdown, 2s. 9d.; post free. EDWARDS, 99 Murdoch Road, Handsworth.

Stocktaking.—9 gross 2d. Garthwaits' mixed bird-feed; $2\frac{1}{2}$ gross 2d. Hall's glossy starch; $\frac{1}{2}$ -pocket Kent hops; all good condition; what offers, or exchange? WATSON, Chemist, Shipley.

What offers, or exchange? 2 4-gal. percolators (without taps); 1 $\frac{1}{2}$ -gal. ditto (complete, all graduated, Y. G. Co.'s); 1 $\frac{1}{2}$ gal. lever tincture-press; 3 4-gal. carboys (ont stoppers); 1 specle-jar pure drugs (height 24 in.). ALBERT POMFRET, 10 Whalley New Road, Blackburn.

WANTED.

Camwal shares. State number and price, 232/33, Office of this Paper.

Gardner's Rapid sifter and mixer, hand-use. O. ROEBUCK, Shelley, Yorkshire.

Price 2½ lbs potass. iodid., 2 oz. saffron. T. CRAWSHAW, Post Office, Dewsbury.

Minor book, Lowson's "Botany," all latest editions. F. M., 114 Garfield Road, Nottingham.

Camwal shares, ordinary or preference. State lowest price, ELMER, 83 King Cross, Halifax.

Old electric lamps and scrap platinum. P. ROWSELL, 9 Derwent Grove, East Dulwich, London.

Counter showcase for compressed tablets, B. W. & Co.'s or similar. State price, 84 Comiston Road, Edinburgh.

Half-pint shoprounds; also $\frac{1}{2}$ and 1 lb. ointment-jars, labelled; suitable for small branch; lowest price. 232/25, Office of this Paper.



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ESTABLISHED 1859.

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THIS JOURNAL is regularly supplied by subscription to the whole of the Members of SEVENTEEN PHARMACEUTICAL SOCIETIES in the British Empire. The associate Journal, *The Chemist and Druggist of Australasia*, published at Melbourne and Sydney, is also supplied to all Australasian subscribers.

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OUR SUMMER NUMBER.

NEXT week's issue of *THE CHEMIST AND DRUGGIST* will be our annual Summer Number.

It will go to press a day earlier than usual, and the Publisher desires us to state that he cannot receive advertisements after Tuesday, July 24.

Manufacturers and wholesale houses should not miss having an advertisement in the Number, which will have an enlarged circulation and will be produced in splendid style.

The Number will contain a report of the proceedings of the British Pharmaceutical Conference, to be held in London next week on Monday, Tuesday, and Wednesday.

For that reason alone the Number will be a good one to advertise in, but, besides, it will present the features which have characterised the Summer Numbers of *THE CHEMIST AND DRUGGIST* as the best publications of the kind in the world.

Advertisements for the Coloured Supplement will be received until 2 P.M. on Thursday, July 26

Summary.

JOHANNESBURG DRUG-STORES are all right (p. 92).

THE results of the Naval Dispenserships examination are given on p. 78.

THE SEVENTH CENTENARY of the Paris University takes place this year (p. 96).

AN illustrated description of the Metropolitan College of Pharmacy is printed on p. 89.

A LETTER to the Lord Chancellor is printed on p. 108 as a model for others to follow.

WE REPORT an interesting chemical-brokerage case, dealing with the commission on lost cargoes (p. 99).

REPLIES to a large number of queries (dispensing, legal, and miscellaneous) are printed this week (p. 109).

A GIRL has been killed in an aerated-water factory through a syphon bursting and cutting her throat (p. 78).

THE results of the Irish Pharmaceutical examinations this month are given on p. 80 with the names of the candidates.

THE PROPRIETORS of Valentine Meat-juice have now got their suit against another Valentine in the Court of Appeal (p. 99).

SOME OUTINGS, including a day at Dartford with Messrs. Burroughs, Wellcome & Co.'s employes, are reported (p. 104).

"THE CLOSE" BIRD in the Pharmaceutical Aviary bears a resemblance to Mr. Lescher, President of the Drug Club (p. 92).

MESSRS. HOVENDEN & SONS have, after all, won their action against a firm who paid secret commissions to their buyers (p. 99).

A CONFERENCE AT ZURICH is drafting a Bill to regulate the advertising of pharmaceutical specialities and patent medicines (p. 105).

REPORTS by the W. B. Fordham & Sons, Apollinaris and Johannis, and A. J. White (Limited) Companies are referred to on p. 103.

"XRAYSER" gives some fresh interpretations of the peculiar resolution of the Pharmaceutical Council in regard to carbolic acid (p. 93).

ON PAGE 97 we give a cartoon from one of the evening papers which shows the way the arsenical sodium-phosphate case strikes the lay mind.

THE demand at the drug-auctions on Thursday was exceedingly lifeless, due partly to the hot weather and partly to absence of orders (p. 114).

M. BERTHELOT was unable to preside at the Congress of Pure Chemistry held in Paris this week. We report the proceedings of the Congress on p. 81.

A BILL to amend the Medical Acts in respect to the Medical Council's power over the conduct of registered practitioners is now before Parliament (p. 107).

THE CAPE PHARMACEUTICAL SOCIETY has elected Mr. F. W. C. Thomas as President, in succession to Mr. J. A. Mathew. We report the annual meeting on p. 106.

A "LIVER-SEEDS" advertising dispute has been heard in the Courts, and some interesting facts about the speciality and running a patent medicine came out (p. 99).

THE COMPANIES BILL is making slow progress through the Standing Committee on Trade. On Monday Clause 14 had been reached, and there was still much contentious matter to be dealt with (p. 107).

DR. JOHN ATTFIELD, as reporter of the British Pharmacopoeia, has prepared a Digest of the criticisms and research bearing upon the 1898 Pharmacopoeia, and the General Medical Council has published it in pamphlet form. We deal very fully with it in an editorial written on p. 94.

THE markets are considerably brisker this week. Cinchona and quinine are the leading features, a good speculative business having been done in the latter article, and the makers have advanced their quotation 1½d. per oz. Opium is again dearer and in good demand. All Chinese produce remains firm (p. 112).

THE annual meeting of the Society of Chemical Industry was held in London this week. Professor Chandler presided, and delivered an address on American scientific education and industrial chemistry. The Society's medal was presented to Dr. Schunck, and Professor Chandler and Mr. Beilby, his deputy, were presented with souvenirs of the meeting (p. 84).

English News.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Brevities.

The Faversham Town Council has appointed Mr. E. Jenkins, chemist and druggist to the Council for the ensuing year.

A traveller named Thomas Charles Jeffries committed suicide on July 14 at Moseley by taking a quantity of cyanide of potassium.

The chemists of Rye have agreed to close their business establishments on Tuesdays at 1 P.M. instead of at 3.30 P.M. as heretofore.

A well-equipped chemical and bacteriological laboratory, for the use of the County Medical Officer of Health, has been fitted up in Trowbridge.

The Sanitas Company (Limited) and Jeyes Sanitary Company (Limited) are to supply disinfectants to the Whitehaven Town Council.

The young wife of Mr. Ernest Fortune, assistant in Taylor's Drug-stores, Ilkley, committed suicide on July 14 by hanging herself with a clothes-line. Deceased had been in a depressed state of mind.

Florence Prince (18) was cleaning a syphon at the Idris Mineral-water Factory, Camden Town, on July 11, when it burst. A fragment of broken glass cut her throat, the wind-pipe being severed. She died, and a Coroner's jury asked the firm to have the wire masks made large enough to protect the neck as well as the face.

Elizabeth Ann Mullarkey (19) drank ammonia in mistake for whisky at Sunderland on July 8, and died. At the inquest the Coroner said the bottle ought to have been labelled "Poison." A doctor, giving evidence, reminded the Coroner that ammonia is not amongst the scheduled poisons, and the latter said he knew that, but it ought to be so labelled all the same. He had investigated an exactly similar case a short time before.

Naval Dispensers.

The result of the examination held on June 19 and 20 of candidates nominated to compete for four situations as dispensers in H.M. Naval Hospitals at home and abroad has just been made known. The four successful candidates, in order of merit, are F. W. Downar (Nottingham), F. H. Waterhouse (Southampton), T. E. S. Bowers (Liverpool), and J. E. Stoneman (Dawlish). The following shows the marks obtained:—

Name	Pharmaceutical Chemistry	Material Medica	Recognition of Chemicals and Drugs employed in Medicine	Practical Pharmacy, &c.	Total
Maxima ...	300	300	300	300	1,200
Downar ...	227	220	185	210	842
Waterhouse ...	199	229	170	180	778
Bowers ...	202	163	155	192	712
Stoneman ...	154	208	155	180	697

Three candidates were unsuccessful.

The British Pharmaceutical Conference.

We are informed by the Hon. Secretary of the Local Committee of the British Pharmaceutical Conference that no more tickets can be issued for the river-excursion on Thursday. The supplementary steamer has already its full

complement, whilst the two barges have been filled up long ago. The Ladies' Committee have arranged to visit the Doulton Pottery-works and Westminster Abbey on Wednesday during the sessions of the Conference.

A New Pharmaceutical Course.

In the pharmaceutical course in connection with University College, Nottingham, classes will be held in all the subjects required for the Minor and Major examinations. Beginning with the forthcoming winter the course suggested will extend over two years. In the first year the classes will embrace elementary inorganic chemistry, practical chemistry, botany, and practical dispensing; and in the second year are classes for advanced subjects, including organic chemistry and materia medica. There will be a course of about twenty class-meetings for practical dispensing, consisting of a lecture followed by practical work, as well as a course of about twenty lectures in materia medica. These classes will be held in alternate years provided there are sufficient entries. These arrangements meet the approval and the requirements of the Nottingham and Notts Chemists' Association, under whose guarantee the classes used formerly to be held.

L.C.C. Chemical Apparatus.

At a meeting of the London County Council on July 17, the Stores Committee reported that the present contract for the supply of chemical apparatus, balances, and weights had been running for some time. They thought that a new annual contract should be entered into for January 1 next, and accordingly recommended that steps be taken for the termination of Messrs. Townson & Mercer's contract, dated February, 1896, by December 31. The recommendation was agreed to.

Over Assessed.

At a special sitting of the Canterbury Justices on July 6, Messrs. Edwin Bing & Son, pharmaceutical and manufacturing chemists, Canterbury, appealed against the assessment of their mineral-water premises in Monastery Street. It was stated that the Assessment Committee of the Board of Guardians had increased the figures from 32*l.* to 102*l.* gross value, and from 25*l.* to 63*l.* 10*s.* rateable value. Mr. Edwin Bing gave evidence, and eventually the Bench reduced the gross to 86*l.*, and the net rateable to 57*l.* per annum.

The Companies Bill.

At a meeting of the Exeter Association on July 18, it was decided to take steps to oppose Clause 2 of the Companies Bill. The county and city members are to be interviewed, and the suggestion made that the words "pharmaceutical chemists and chemists and druggists" be added after the word "surgeon" in Clause 3.

A meeting of the Halifax Chemists' Association was held on July 11 to consider what action should be taken with regard to Clause 2 of the Companies Bill. The Secretary was instructed to write the local M.P.'s, calling attention to his former communication and the *C. & D.* proposed amendment, asking their careful consideration and support. Failing a satisfactory amendment being moved, they were to be asked to strenuously oppose the clause.

The members of the Bradford and District Chemists' Association have sent the following letter, enclosing the appeal on the Companies Bill issued by the Pharmaceutical Society, to their members of Parliament:—

DEAR SIR,—At a meeting of the Bradford Chemists' Association, held July 10, it was resolved that a letter be sent to you, signed by the President and Secretary, asking your serious attention to the enclosed circular emanating from the Council of the Pharmaceutical Society.

In pressing the urgency of the matter upon your notice, we would say that paragraph 7 of the circular admirably sums up the invidious and monstrously unjust nature of the legislation sought to be attained by Clause 2 of the Companies Bill.

Further, it is only needful to add that chemists in this action in no way attack the existing free trade in drugs, other than scheduled poisons (see paragraph 3), their sole object being the protection of their titles, acquired only after arduous study and the passing of stringent examinations (see paragraph 6).

Your constituents earnestly trust they may count upon your influential support and help in this matter.

The letter is signed by the President of the Association (Mr. H. G. Rogerson) and the Hon. Sec. (Mr. J. A. Mitchell)

The annual *conversazione* and distribution of prizes to the students of the Dental Hospital of London took place on July 18. The Dean (Mr. Morton Smale), referring to the Companies Bill, said two clauses had been inserted in the Bill to prohibit the practising of medicine, surgery, midwifery, or dentistry by a company. Mr. Ritchie was of opinion that these clauses were not germane to the Bill in which they were incorporated, but the Grand Committee had included them in the Bill by a small majority. The Bill had now to pass through the House of Commons, and he trusted that the view of the Grand Committee would be endorsed, and the measure become law, with the clauses included. Mr. F. A. Bevan presented the prizes, and a programme of music and an exhibition of sleight-of-hand were given during the course of the evening.

Bits from Birmingham.

While the presence of arsenic in sodium phosphate is causing much excitement in the trade, a well-known analyst of this city asks that attention may also be given to that humble but very commonly-used acid designated chemically HCl. It is most difficult, he says, to get a sample quite free from arsenic, which, when present, must find its way into substances with which it is compounded. Not long ago more than traces of this poison were found in Glauber's salts and in sea-salt made artificially with magnesium chloride.

It is not often that the suicide seeks publicity for the performance of the supreme act, but such was the case last Thursday, when a man in the chief thoroughfare of the city at the busiest hour of the day tried, in front of Messrs. Churchill & Arblaster's shop, to cut his throat with a razor. Junior pharmacy and embryonic medicine came to the rescue, and, after bandaging, despatched him to the general hospital in a cab.

Birmingham just now, especially in the centre of the town, is infested with rats, and so great is their number that cats are no use and are attacked and killed. Rat-poison would come too expensive and the professional rat-destroyer wants too large a fee. An enterprising pharmacist has suggested a mongoose for the purpose. It is an excellent idea in one way, but the general employment of that Indian animal would not be so in another. Yet, the sale of 3d. and 6d. packets of vermin-killer is not a desirable industry, for the seller never knows whether it will or will not lead to an inquest, jury disagreement, and, perhaps, attendance at the assizes.

The note on indiarubber of last week recalls a statement made by an eminent D.Sc. of this city that modern rubber does not contain much more than 3 per cent. of the real stuff, and that no less than 150 different substances are used in preparing the artificial variety.

It is expected that a good muster of Birmingham and Midland pharmacists will be made in London at the B.P.C., and it is reported on all sides that the President is to be congratulated upon the thoroughly pharmaceutical nature of the papers to be submitted to the consideration of the members. It is curious that the L. & N. W. Railway do not seem disposed to grant reduced fares from Birmingham to London on the occasion of this annual gathering, but it has trips at reduced fares about that date.

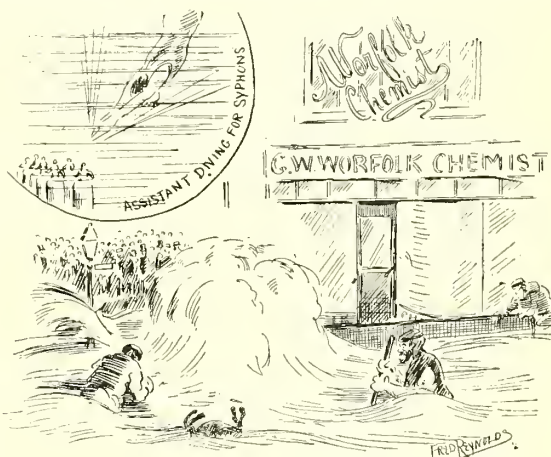
It is said by some ardent adherents that every pharmacist should pay his ten guineas to the Pharmaceutical Society and become a life member. It is credibly reported, however, that many—and it could easily be proved that not a few—have done so in this town, and, *mirabile dictu*, have been gathered to their fathers a few short years afterwards. Such a step is voted by some to be as ominous as making one's will, and this in some quarters of the globe, where superstition is latent, is not viewed with favour.

Death from the Heat.

On July 16, Mr. J. S. Williamson, a druggist, of Highbury, had been selecting, in consultation with a Manchester solicitor, the charities which should benefit by the bequests, amounting to 34,000l., of the late Mr. F. Rothwell, a Manchester manufacturer. The work occupied four hours, and afterwards Mr. Williamson went for a walk up Pentonville Road, where he was suddenly overcome by the heat, and died from syncope.

Pharmacy under Difficulties.

A violent thunderstorm, accompanied by a "cloud-burst," wrought considerable damage at Ilkley on July 12. Whole houses were swept away by the floods, and twelve houseless families were living in a public hall. Damage estimated at about 25,000l. has been done, and amongst the sufferers was Mr. G. W. Worfolk, chemist and druggist, who had to close his pharmacy in Brook Street and keep the water out by means of hoards and other impedimenta. Mr. F. Reynolds assures us that the accompanying sketch is a true picture of



the state of affairs as he saw it. The assistant, he was told, had to dive into the cellar for siphons, which, when fished out, needless to say, were label-less, and some doubt existed for a short time as to the kind of water the purchaser was buying.

To be Analysed.

At an inquest held at Clayton-le-Moors on July 13, on the body of a seven-year-old child named Ellen Alston, it appeared that a few days previously the child complained of a headache, and half a headache powder was given to her in some tea. The next day the child was given a teaspoonful of tincture of rhubarb, but the stomach immediately rejected it, and she died before a doctor could be obtained. Dr. Clegg said he thought the child died from syncope, but he did not think that the commencing pneumonia, of which he found traces, was sufficient in itself to account for the syncope. Mr. Robert Mountain, chemist and druggist, Ash-cliff, Bacup, said he sold the headache-powder in question, and, by consent of the coroner, he wrote down the name of the ingredients on paper. Mr. Mountain added that the preparation was insoluble in water or tea, so that if any time elapsed, say half a minute, before it was taken, the powder would be precipitated to the bottom of the spoon, and in all probability deceased would not get any of it. It was recommended to be taken in milk, because it was then more suspended.

The Coroner: From your experience as a chemist what is the effect of this preparation? Is it stimulative?

Witness: There is no doubt that the effect is depressing for the heart in large doses. An adult could take 20 gr., and he had known $\frac{1}{2}$ dr. to be taken in safety by an adult. He had never had the slightest indication of any serious results following the taking of these powders, and he was certain the powder had not caused death in this case. The Coroner sealed one of the packets containing the powders, and the inquiry was adjourned to allow the powder to be analysed, and the viscera and contents of the deceased to be examined.

Deodorant or Disinfectant?

Dr. George Newman, the Medical Officer of Health for Clerkenwell, is as emphatic as his predecessor in office (the late Dr. John Glaister) as to people putting little or no faith in disinfectants as supplied by vestries. At last week's meeting of the Clerkenwell Vestry the doctor was questioned as to an item of the Public Health Committee's expenditure for carbolic acid and powder. Mr.

Thoms wished to know if the Medical Officer approved of the use of these disinfectants? "Certainly," was the reply. "As a deodoriser; but not as a disinfectant in the quantities we serve out." "Why do you put these powders and acids down in the stables?" "To create a better smell than that of the ammonia in the manure-pit." Mr. Brunja: Practically to kill one stink with another. The Doctor: Precisely. Mr. Thoms asked why a better supply was not given for the dustbins? The Doctor: Because it would probably be covering up what ought to be removed, and thus give the people a sense of false security. Lead them to know that to clean the dustbin right out is better than covering the stuff sticking to the bottom with carbolic powder, and then a good deal of danger from disease germs would be avoided.

Carbolic Cases.

Lilian Austin, living at King's Road, Camden Town, poisoned herself on July 17 with carbolic acid.

Jane Keirl, a domestic servant residing at Cardiff, committed suicide on July 10 by drinking carbolic acid.

A man named Samuel Kellett died at Enfield Lock on July 14 from carbolic-acid poisoning. A fortnight back he was discharged from his employment, and that seemed to prey upon his mind.

A Warning.

West-end chemists are warned against a tall lady who rings the night-bell and presents a prescription (said to be written by Dr. Johnstone, of Marlborough Hill, N.W.) for solution of cocaine, and who also has mislaid her purse. The lady does not live at the address she gives, and the doctor has not written the prescription.

Cricket Reports.

"Aldersgate" C.C. (S. Maw, Son & Thompson) v. Longford C.C. (Ryland & Sons, Limited).—Played at Honor Oak, July 14, and resulted in a win for the former club. Scores: Aldersgate, 200 (seven wickets); Longford, 160. For the winners Hopley scored 70, Lawrence 47, and C. T. Maw 22; whilst Armstrong (45) and Hitchcock (37) were the best for the losers.

The Bottle-trouble.

The Preston and District Mineral-water and Fermented Drinks Association has raised the price of mineral and aerated waters generally retailed at 1d., from 8d. to 11d. per dozen, net. The manufacturers will allow 3d. per dozen on returned bottles. This action, the Association states, has been necessitated by the serious loss which manufacturers have suffered through carelessness in returning empties.

Cutting in the Grocery Trade.

The annual congress of the Federation of Grocers' Associations was held at Bristol last week. In the course of the proceedings it was resolved, that owing to the cutting of proprietary articles, the General Purposes Committee be instructed to ask the most prominent manufacturers of cocoas, blue, starch, mustard, soaps, meat-extracts, condensed milk, baking-powder, cornflour, sauces, and such like, to co-operate with them in devising means whereby an assured minimum profit of 15 per cent. might be secured to the retailer. Further, that the names of firms acceding to that request should be notified to all affiliated associations, and the members recommended to give prominence to the articles so protected. A further motion that the matter be referred to the General Purposes Committee, and that they give every assistance to the P.A.T.A. was ruled out of order by the Chairman.

Wine Cups at Bisley.

Remarkable shooting was witnessed at Bisley in the competition for the Keystone Burgundy Cup presented by Messrs. Stephen Smith & Co. (Limited), Bow, London, E. Col.-Sergt. T. Aldridge, Guernsey, made nine bull's-eyes and a magpie out of ten shots at 1,000 yards with the Service rifle, and was awarded the cup. Col.-Sergt. Mason, 3rd Scots Guards, and Lance-Sergt. G. Giles, 2nd V.R.B. Surrey Regt., scored 44 and 43 points respectively, and received 6l. and 4l. for second and third places. There were also six cash prizes of 2l., and twenty-three of 1l. each. Hall's Wine Challenge

Cup, open to members of the new rifle clubs which have become affiliated with the National Rifle Association, was won by Sergt. J. Campion, Altcar; Sergt. Gilbert, Pewsey Vale, and J. Whitehead, M.R.C.P., being second and third respectively; there were also fourteen cash prizes. The shooting in this competition was not so good as for the Keystone Burgundy Cup, in consequence of the N.R.A. restricting the competitor to standing position.

Irish News.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Pharmaceutical Society of Ireland.

The following are the names of those who passed the recent examinations:—

Pharmaceutical Licence Examination—W. V. Bates, J. H. Gowans, J. G. Yoxall, S. Hooey, A. Porter, and H. Hoskin passed. Fifteen candidates were rejected.

Registered Druggists' Examinations (at Belfast and Dublin)—J. A. Berry, A. E. A. Davis, J. B. Faichney, H. Graham, J. P. King, T. C. McCarthy, G. McCormick, H. E. Malone, and J. White passed. Five candidates were rejected.

Pharmaceutical Assistant Examination—S. Dale passed. Three candidates were rejected.

The Disputed Account.

Reference was made at the Castlereagh Guardians' meeting on July 14 to Mr. White's account (*C. & D.*, June 23, page 1022). During the discussion it transpired that the medicines, the money for which is in dispute, were delivered at Boyle. The doctor was not able to certify the goods for payment as he had not received them. The matter was further adjourned.

Good Drugs.

Sir Chas. Cameron reports to the Tubbercurry Guardians that the tincture of iodine, syrup of iodide of iron, and tincture of buchu supplied to the dispensary by Mr. Boyles, Sligo, and which he has examined, are correct.

Limerick Dispenser.

The L.G.B. want to know how it is that the Limerick Guardians have appointed Mr. McMahon external dispenser, whereas previously the holder of the appointment resided at the workhouse. The Guardians have replied that they had fully considered the matter in all its bearings, and have no doubt but that Mr. McMahon will give every satisfaction.

Filling Aerated-water Bottles.

The Belfast Bottle Exchange has issued a notice "To druggists, oil and colour merchants, &c.," in which they say:

The Council of this Exchange have received complaints from members that their bottles have frequently been filled with oil, turpentine, drugs, &c., thereby rendering the bottles useless, and causing very considerable loss.

Your attention is therefore requested to the law on the matter, which provides that no person other than the owner has the right to use for any purpose of trade or manufacture bottles bearing an embossed or branded trade-mark or trade description.

The Exchange in sending out this notice are following the lead of similar institutions in other large towns.

Strychnine-poisoning.

A girl named Emily Gilmore committed suicide at Bangor, Co. Down, on July 13. She was troubled in her love affairs and took strychnine. The poison was obtained from Mr. Hanna, pharmaceutical chemist, Bangor, deceased telling him that it was wanted for poisoning rats.

The Fermoy Analyst.

At the meeting of the Fermoy (Co. Cork) Guardians on July 14 a letter was read from Sir Charles Cameron, in which he said he had analysed sixteen samples more than was agreed upon, for which the charge was 2l. In future, he said, he would do the work for an inclusive fee of 10l. It

was suggested that if a local man were to do the analyses the reports would be to hand quicker, and the Clerk was instructed to make inquiries.

Personal.

Sir Thomas W. Robinson, M.P.S.I., director of Hayes, Conyngham & Robinson's (Limited), pharmacists, Dublin, was last week entertained at a complimentary banquet at Kingstown to mark the occasion of his receiving the honour of knighthood.

Business Changes.

Mr. W. B. Murray, L.P.S.I., late manager of Butler's Medical Hall, Lower Sackville Street, Dublin, has acquired extensive premises on St. Stephen's Green, Dublin, which he is to open as a pharmacy.

Mr. J. Isaac Bernard, Vice-President of the Pharmaceutical Society of Ireland, has acquired Mr. McKillop's pharmacy in Rathgar Road, Dublin, as a branch.

Merchandise-marks Act.

At Waterford Petty Sessions on July 13, Messrs. John Kelly & Son, M. Sullivan, Messrs. Power & Son, and John Garvey, mineral-water manufacturers, Waterford, were individually charged with infringement of the Merchandise-marks Act, 1887, by selling mineral waters manufactured by the defendants in bottles branded with the names of other manufacturers, at whose instance the prosecutions were instituted. The prosecuting firms were:—Messrs. Cantrell & Cochrane (Limited), Belfast; Messrs. A. & R. Thwaites & Co. (Limited), Dublin; Messrs. Bewley & Draper (Limited), Dublin; Messrs. Hovenden & Orr, Belfast; Messrs. O'Brien & Co.; Messrs. Kernan & Co., Dublin; Messrs. Ross & Co. (Limited), Belfast; Messrs. Donohue & Co. (Limited), Enniscorthy; and Messrs. Corcoran & Co., Carlow. After exhaustive evidence the Bench held that an offence in each case had been committed, and imposed fines and costs.

Scotch News.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Personal.

Mr. C. C. Cowper, chemist, Bervie, has been appointed Registrar of the town, in room of Mr. D. Reid, resigned.

Carbolic-poisoning.

On July 12 a woman named Dinning, living in Paisley, was discovered dead with a bottle which had contained carbolic acid by her side. A medical man said the woman had been poisoned with the acid.

Edinburgh Chemists', Assistants', and Apprentices' Association.

The second botanical excursion of the season took place on July 12. The party went by train to Slateford at 8.30 P.M., and thence along the banks of the Union Canal to Redhall, and down by the Old Mill to Colinton Dell, returning from Colinton by train at 10.25. The weather was fine, though cloudy, and, too soon, dark. Many plants were collected, and Messrs. C. A. Macpherson and Rutherford Hill acted as conductors.

A MARKED INCREASE is shown in the import of English sulphate of copper to Bône, Algeria; the figures are, 1899, 98 tons; 1898, 5 tons. The British make is considered purer than the French, and is evidently preferred in the Algerian market.

"THE LAST AND CHATTY CUSTOMER" observes to photographic chemist as he puts up his door-shutter at the closing hour: "Setting your Thornton-Pickard, I see. Is that instantaneous?" Photographic Chemist (wearily), "No, sir; it is emphatically 'Time.'" And "the Last and Chatty Customer," on the only occasion on record, took the hint.

(124/31.)

French News.

(From our Paris Correspondent.)

PYRAMIDON.—At the meeting of the Paris Academy of Sciences on July 9, Drs. Albert Robin and G. Bardet communicated a paper on the action of pyramidon, the dimethylamido derivative of antipyrin. Generally they confirmed previous observations on the new remedy, and pointed out its special utility in diabetes. They believe it to be better than antipyrin for neuralgic affections, the dose being 5 to 10 gr., although as much as 3 grammes (45 gr.) has been given without untoward results.

EXTRA SHOWS.—Visiting the Pasteur Institute at Paris is in future to be greatly facilitated until the close of the Exhibition. The public will be admitted daily from 5 to 7 P.M., and the exhibits will include the crypt where the remains of Pasteur lay, the library, the service for the treatment of cases of hydrophobia, the amphitheatre, two of the laboratories, the machinery hall, the hospital, and the free dispensary. The entrance is at 25 rue Dutot, and visitors will be shown through the building by qualified guides.

International Congress of Pure Chemistry.

By our own Reporter.

THE inaugural meeting of this Congress was held in Paris on Tuesday morning, July 17, at 10.30, in the "C" Hall of the Congress Palace at the Exhibition. M. Berthelot, President of the Congress, was to have taken the chair and it was a great disappointment that his health did not enable him to attend. Professor Troost, of the Sorbonne, read a telegram of excuse from the great chemist; then M. Hanriot (Assistant Professor at the Paris Faculty of Medicine and Vice-President of the Congress) welcomed the congressists in the name of the Organising Committee, and M. Armand Gautier (another Professor at the Faculty of Medicine, Vice-President of the Paris Chemical Society, and member of the Institute) made a neat speech in the same strain.



M. BERTHELOT.

It was an understood thing that the inaugural meeting was to be a sociable reunion and not a scientific session. The only business on the notice-paper was the election of office-holders apart from M. Berthelot (President) and M. Hanriot (Vice-President) already named. As Vice-Presidents there were nominated:—Professor Kiliani, of Freiburg University; Professor Kournakow, Professor of Chemistry at the St. Petersburg Institute of Mines; Professor Graebe, of Geneva University; Professor Franchimont, of Leyden University, Holland; and Professor Clarke, of Columbia University (U.S.A.). The General Secretary is M. Gabriel Bertram, a young and active man, who is chief of the service of biological chemistry at the Pasteur Institute. His assistant secretaries are M. Hebert, a young preparator at the Paris Faculty of Medicine; M. Moureu, well known at the Paris School of Pharmacy, where he is one of the new assistant professors; and M. Delepine, preparator at the College of France. M. Petit is Treasurer. M. Behal, General Secretary of the Paris Chemical Society, who belongs to the Paris Faculty of Sciences, has taken a very active part in the organisation of the Congress.

Among those who are participating in the Congress are Prince Roland Bonaparte, MM. Deherain (of the Institute)

Lindet, Lauth, and F. Dupont; Professor Sabatier, of Toulouse; Professor Maquenne, of the Museum M. Adrian, the well-known chemical-manufacturer; Professor Riban, of the Sorbonne; M. Gustave André; Captain Ducru, of the French Artillery; and two sons of M. Berthelot, Daniel and Philippe. The latter is a tall, handsome young fellow, from whom the *C. & D.* representative naturally inquired for news of his distinguished father, and was glad to learn that it was hoped that his health would shortly improve. There were also present MM. Blanchard, M. G. Lemoine, of the Institute; Professor Haller, of the Sorbonne; M. Deniges; Professor Guntz, of Nancy; M. Jungfleisch, Professor at the Paris School of Pharmacy; M. Camille Poulenc; M. Raoult, of Grenoble; and M. Buchet—all representing France. Russia sent M. Klimenkos, from Odessa; M. Sokovine, a Commissioner at the Exhibition; and M. Jawein, of St. Petersburg. Hungary sent M. Szarvasy and M. de Than, of Buda Pesth. From across the herring-pond came Dr. Reuter, of New York; the Abbé Choquette, from Quebec; and M. Juan de Domenguez, from Buenos Ayres. Germany is represented by Professor Otto Witt, of the Technische Hochschule, of Berlin; Dr. Straidet, of Darmstadt; Dr. Fresenius, of Wiesbaden; M. Zelinsky, Munich; and Herr von Buchka, Berlin. Switzerland sent Professor Kostanecki, of Berne; M. A. Pickett, of Geneva; M. Pertsch, M. Rehlen, and M. Schall, from Zurich; M. Ad. Steiger comes from Amsterdam.

From the British Isles we have Mr. E. F. Morris (Manchester); Professor Emile Werner, of Dublin University; and Professor Hartley, of the Royal College of Science, Dublin; the last one of the ninety specially invited. More may arrive later, for among those thus invited were Dr. Chattaway, of St. Bartholomew's Hospital, London; Mr. Dreyfus, of the Clayton Anilin Company, Manchester; Mr. Robert Holliday, of the Huddersfield firm; Mr. Levinstein, of Manchester; Professor Meldola, F.R.S., of the City and Guilds Technical College; Professor Ramsay, Sir Hy. Roscoe, and Professor Tilden, of South Kensington. It was suffocatingly hot, even in these lofty, airy rooms, and no one was particularly sorry that the speeches were brief. For the Chemical Society was to offer us a

"CHAMPAGNE OF HONOR,"

and the golden crowns of the queen of French wines sparkled appealingly at the buffet in the corner. So soon, glass in hand, scientists internationally fraternized. Here a Strasburg professor introduced himself (as Germans do most politely and formally, a third person not being considered indispensable as in England) to an unknown Frenchman, who happened to be Professor Haller, who himself belongs to the annexed provinces. But the Alsace Lorraine incident merely afforded them an opportunity of claiming neighbourhood and brotherhood. The incident was amusing to those who know how much M. Haller has struggled to rouse his countrymen to face German industrial competition.

Then we filed out to *déjeuner* one by one when the last bottle was empty and the last biscuit had disappeared. The afternoon of Tuesday was

SPENT AT THE EXHIBITION,

the place of meeting being the Centennial exhibit in the chemical section, which was for the space of the half hour kept sacred to the congressists. No regular lecture was given, but many of the French members pointed out objects of interest to the foreign delegates. M. Armand Gautier gave a full explanation of the exhibit of the Faculty of Medicine, and although his discourse on glycogenes and normal arsenic and other items of personal research was personally addressed to one of the Russian visitors, it proved so enthralling to a little knot of listeners that at 3 P.M., the moment of departure, Professor Troost gave a despairing shrug and left the enthusiasts grouped around the case while he directed the rest upstairs.

Here in the French chemical section a few of our leading industrials had arranged either to be personally present or to have competent attendants to open their cases and allow of the minute inspection and handling, forbidden to the casual visitor.

Thus at M. Tanret's stand a foreign *savant* was allowed to convince himself by close personal inspection of the article that the yellow tint of the ergotin specimen was

due to the action of the light, the lower layers being perfectly white. Round M. de Laire's stand of artificial perfumes and Baur's musk a merry party surrounded M. Béhal and the exhibitors' representative. Grave and middle-aged congressists offered their handkerchiefs to be scented with schoolboy enthusiasm, the run on "Ionone" being quite amusing. In fact, one member, a perfume-hater, declared his fellow-congressists were sickeningly scented, and when M. Béhal offered him a grain of artificial musk, a final retreat was beaten to less odoriferous regions at the other end of the gallery.

Here M. Chenal showed wondrously-tinted chemical crystals, and M. Poulenc's stand proved to be full of interest. Not only the foreigners, but some leading French chemists, much admired the specimens which they were allowed to examine to their hearts' content. "Oh! that's nothing," observed an obliging proprietor as one heard the clink of falling glass, and we once more turned to the inspection of "this fine and absolutely white specimen of taurocholate of sodium," with many more akin thereto. It was a hot, baking day, and the Exhibition is not a cool place. However, as straw hats, alpaca coats, and duck trousers were the order of the day, the interesting visit was made in comparative comfort. But as most of the stands have been noticed in the *C. & D.*, I need not go into detail. The Congress conundrum as proposed was:—

Why is the Pure Chemistry Congress like M. Moissan's electric furnace?—Because it gives us the highest temperature yet registered.

This ended the first day's programme.

LATER PROCEEDINGS.

On Wednesday, July 18, a general meeting of the Congress was held at 10 A.M. at the headquarters of the Chemical Society of Paris, 44 rue de Rennes. At 2.30 the members met in the large hall of the Société d'Encouragement in the same building to hear a lecture by M. Raoult, Senior Professor of the Grenoble Faculty of Sciences, on "The Chemical Teachings of Cryoscopy and Tonometry."

On Thursday, July 19, the members again met at 44 rue de Rennes, and in the afternoon at the Hall of the Institute of Chemical Biology, 24 rue Dutot, for the purpose of visiting the Pasteur Institute



M. BEHAL (Secretary of the Congress).

and the new laboratories of biological chemistry. At 7.30 P.M. a banquet was to be held in the Hôtel Continental, and at 10 P.M. there was to be an open reception for all the members of the Congress and the Chemical Society of Paris.

The remainder of the programme is as follows:—Friday, July 20: General meeting of members at 10 A.M. at the headquarters of the Chemical Society of Paris. At 4.30 P.M.: Conference at the Amphitheatre of Pharmacology at the Faculty of Medicine, 12 rue de l'Ecole de Médecine, by M. Armand Gautier, Professor at the School of Medicine, on "The Combustible Gases of the Air."

After the Conference the members will be invited to visit the chemical laboratory of the Faculty of Medicine.

Saturday, July 21: The morning will be devoted to visiting the laboratories of some of the leading professors of the Paris Sorbonne, including those of Professors Troost, Lippmann, Haller, Riban, and Dastre. At 2.30 P.M. Professor Moissan will lecture to the members of the Congress on "Metallic Carbides" at the Paris School of Pharmacy, after which the laboratories of the School will be visited prior to the breaking-up meeting.

Pharmaceutical Society of Great Britain.

NORTH BRITISH BRANCH.

A MEETING of the Executive was held at 36 York Place, Edinburgh, on July 12, Mr. Peter Boa in the chair.

Mr. Peter Boa was unanimously re-elected Chairman of the Executive, and Mr. Robert McAdam Vice-Chairman.

The CHAIRMAN welcomed Messrs. Doig, Dunlop, and Spence, the new members.

THE LATE MR. BORLAND.

The CHAIRMAN, referring to the death of Mr. John Borland, of Kilmarnock, said his death was a distinct loss to pharmacy in Scotland. Mr. Borland was a man of wide general attainment, and was particularly eminent as a botanist. He proposed that they record in their minutes an expression of their regret and send a letter of sympathy to Mr. Borland's family.

Mr. KERR seconded.

GENERAL PURPOSES COMMITTEE.

It was moved by Mr. CURRIE "that the Chairman, Vice-Chairman, resident members of the Executive, and Mr. Spence (Linlithgow) and Mr. Storrar (Kirkcaldy) be appointed a General Purposes Committee to attend to any business arising between the meetings of the Executive or remitted to them by the Executive."

Mr. FISHER seconded the motion, which was agreed to unanimously.

NOMINATION OF EXAMINERS.

On the motion of Mr. FISHER, seconded by Mr. HENRY, it was resolved to appoint the Chairman, Vice-Chairman, and Messrs. Currie, Ewing, Kerr, Storrar, Strachan and Tocher a committee for the nomination of examiners, to consider any names that may be submitted to them, and to report to a meeting of the Executive to be held prior to the meeting of Council in November.

WINTER SESSION EVENING MEETINGS.

The Executive resolved to hold evening meetings of the Society in Edinburgh on the third Wednesday of each month from November to April inclusive, and it was remitted to the General Purposes Committee to consider the advisability of holding one of the scientific meetings at 11 o'clock forenoon, to give country members an opportunity of attending as suggested by Mr. Gilmour. Professor J. Arthur Thomson, of Aberdeen University, will give the opening address of the session.

THE PHARMACEUTICAL CONFERENCE.

The Chairman, Vice-Chairman, and Messrs. Currie, Cowie, Davidson, Ewing, Fraser, Jack, Johnston, Kerr, Naysmith, and Storrar were appointed delegates from the Branch to attend the meetings of the British Pharmaceutical Conference in London.

DISTRIBUTION OF PARTICULARS OF EXAMINATION.

The ASSISTANT SECRETARY read the following letter from the Secretary:—

July 5, 1900.

DEAR SIR,—Distribution of particulars of examination.—I am directed to send you for communication to the Executive of the North British Branch the following resolution which was unanimously adopted by the Council yesterday, when the communication on the subject from the meeting of members residing in Scotland was considered:—The Council resolve that it sees no reason to depart from the decision already arrived at by the Council—namely, that the particulars of examination referred to should be obtained from the Registrar by direct application, and from the Registrar alone.—I am, yours faithfully, RICHARD BREMIDGE, Secretary.

After the reading of the letter it was pointed out that the resolution forwarded to the Council, though not reported in the *Pharmaceutical Journal*, was reported in THE CHEMIST

AND DRUGGIST* in a form which did not correspond with the actual resolution sent to the Council, that sent to the Council being in the following terms:—

That this meeting represent to the Council that there is a widespread feeling among the members that the present arrangement for obtaining particulars of examination is unsatisfactory, and that all such papers should be obtainable from the Society's office in Edinburgh, or any local secretary.

In the published form of the resolution the words "papers for examination" had been substituted for "particulars of examination."

Mr. HENRY proposed that the matters referred to in the letter just read be referred to the General Purposes Committee for consideration and to report to the meeting of Executive in October.

This motion was seconded by Mr. CURRIE, and adopted.

PROPOSED NEW BY-LAWS.

Mr. CURRIE drew attention to the proposed new by-laws, particularly to the proposed alteration of by-law 23 of section 10.

The CHAIRMAN said that if Mr. Currie desired to take up this matter, it was open to him to communicate with the Council or to avail himself of the ordinary opportunity given to the members at the general meeting of the Society convened for the adoption of the by-laws.

This was all the public business.

Personalities.

ALDERMAN J. FLOYD, chemist, Cornhill, Bury St. Edmunds has been selected to represent the Corporation on the Ipswich Dock Commission.

MR. A. MACKAY, of the Singapore Dispensary, will take the usual "well-earned" holiday after many years of hard work. He hopes to sail for England the middle of August.

MR. ERNEST A. MCKECHNIE, son of Mr. P. McKechnie, of Messrs. Bowen & McKechnie, of Finsbury, the well-known importers of Australian wines, was one of the draft which went out to South Africa last week by the *Ustermore* to reinforce the C.I.V.'s.

COUNCILLOR J. BEECHAM is punctuating his mayoralty in St. Helens by a series of lavish entertainments. On July 12 he gave a gigantic garden-party for which 1,600 invitations were issued, and on May 10 he sent 800 school-children of the borough to Blackpool for a day, defraying all expenses.

A MR. HARDING, who was a warehouseman in Messrs. Lennon's wholesale department at Cape Town, died suddenly a few months since. Can anyone in England tell us anything about him or about his relatives? We shall be glad if anyone who knew Harding before he went out to the Cape would communicate with us.

MISS DORA MASON, younger daughter of Mr. A. J. Mason, chemist, Bexley Heath, has been awarded the "Jane Agnes Chessar" scholarship (Girton), the minimum value of which is 88*l.* per year for four years. Miss Mason was "Company's Scholar," Blackheath High School, 1896-98; winner of the Reid Scholarship for Bedford College; passed the London University Matric. (Honour), 1898; won the Girton Scholarship Classics, 1899, value 60*l.* for three years; passed the London University Inter. Arts (honours in Latin), 1899.

MR. A. P. NOBBS, of Messrs. A. S. Watson & Co. (Limited), Hong-Kong, is on the way to England for a six months' holiday. A farewell dinner was given to Mr. Nobbs on the eve of departure by some twenty members of Messrs. Watson's staff, including principals and directors. In the speeches reference was frequently made to Mr. Nobbs's continued service of thirteen years in the East, and all joined in drinking "bumpers," coupled with best wishes for an enjoyable holiday and safe return. Mr. Nobbs's address in London, will be care of Messrs. A. S. Watson & Co. (Limited), 64 Crutched Friars, E.C.

* It seems to us remarkable that the Registrar of the Society should use the phrase given in the C. & D. in preference to the phrase of the official resolution.—EDITOR.

The Society of Chemical Industry. Annual Meeting.

THIS year's meeting has peculiar interest to our calling. The President of the year (Dr. Charles F. Chandler) has been for over thirty years professor of chemistry with



PROFESSOR CHANDLER, when President of the New York Board of Health, 1880.

the New York College of Pharmacy, and the President-elect (Mr. Joseph Wilson Swan), though best known to the world of science as an electrician and photographer, is a registered chemist and druggist, and one of the founders of Messrs. Mawson & Swan's pharmaceutical and scientific business in Newcastle-on-Tyne.

Apart from these facts, the meeting for the first time gives expression to the international character of the

Society by the selection of a President from the New York Section. About a sixth of the membership of the Society is derived from North America. It has always been strong there, and when the late Mr. A. H. Mason, who while in London was an active supporter of the Society and familiar with its inner working, went out to New York in 1893, he quickly set to work and established a New York Section of the Society. Of this he was appointed Chairman, and he received excellent assistance from Mr. T. J. Parker, who now holds that office, and who has latterly been ably assisted by Dr. H. Schweitzer as Secretary. The frequent visits of members of the New York Section to London enable them to appreciate the value of the international co-operation thus established, and the present annual meeting will go far in cementing the friendly relations between the technical chemists of two great nations.

A personal note in regard to Professor Chandler will not be out of place. Although associated with pharmacy, he is a man of many parts. He was born in Lancaster, Mass., in 1836—just two centuries after his ancestors "William Chandler and Annie his wife" left our shores for New England. As a boy Professor Chandler, like many boys who do not become chemists, turned his bedroom into a laboratory, as he had the notion of trying the effect of acids and things upon minerals. In due time he passed through such classical and scientific courses as were available to him in his native State, and was sent to the University of Göttingen. He also studied under Gustav Rose in Berlin, but it was at Göttingen that he in 1856 graduated M.A. and Ph.D. On his return to America he put in eight years as an assistant lecturer in chemistry, and in that period did a dozen or more pieces of research, all of them connected with mineralogy; the early bent had become a halo of enthusiasm to him, which was at its brightest in 1864, when he was asked to assist in founding the School of Mines at Columbia University. He was made dean of the faculty. The school was a remarkable and unexpected success. Here he lectured on geology, but when he was relieved of that subject he devoted his whole time to the assaying and analytical department, his work in analysis from 1865 to 1872 including much connected with the mineral springs of

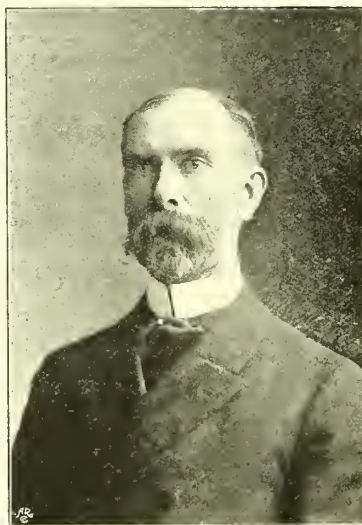
the United States. All this time he was also lecturing to medical and pharmaceutical students, and in 1866 he assisted the New York Board of Health in some chemical work, as a result of which he was appointed chemist to the Board. In 1873 he was appointed President of the Board, and held that position until 1884. His labours on the Board of Health were magnificent: literally and in the broadest sense he swept New York clean, removing many insanitary excrescences, instituting strict regulations for the control of public health, examining and controlling the water and milk supplies, and even founding a system of medical attendance with the special object of reducing the infant mortality of the city.

Meanwhile his interest in scientific chemistry was maintained. He is virtually the founder of the American Chemical Society, for that body sprang from the celebration at the grave of Dr. Joseph Priestley, in Northumberland County, Pennsylvania, in 1874, Professor Chandler being President of the Convention. He is an admirable lecturer, a man of affairs and tact, and as intimate with the pharmaceutical aspects of chemistry as with the scientific. The New York College of Pharmacy elected him its President the other day. We give two portraits of Professor Chandler.

The first shows him as he was twenty years ago, when he was directing the interests of the Board of Health, and waging war against many insanitary industries and traditions in New York city. The second is as he is to day. Somewhat grizzled by the stress of six decades, but still with a clear eye, and as keen in the intellect as he was when the earlier portrait was engraved.

Royal Institution Meeting.

The lecture-theatre of the Royal Institution in Albemarle Street, W., was secured for the opening, on Wednesday morning, July 18, at 11 o'clock, of the three days' meeting. A little more than two hours of that time was devoted to business, the rest being given up to pleasure of varied kinds. Thus, after the business meeting, the members adjourned next door to the Davy-Faraday laboratory, and stayed long enough inspecting it to get an appetite for the "free lunch" which the London Section gave them in the Criterion Restaurant. The afternoon was devoted to visiting



MR. T. J. PARKER, Chairman of the New York Section, S.C.I.

places of interest, such as printing-works, the Government laboratories, and stained-glass works. We say nothing about these visits, nor of those that occurred on Thursday, except that the arrangements were admirable, thanks to the thoughtful care of Mr. Tyrer and the committee which worked with him. On Wednesday evening a brilliant company dined together in the Hôtel Métropole (this is reported later). The Lord Mayor gave the members a re-



DR. H. SCHWEITZER, Hon. Local Secretary, S.C.I., New York.

ception in the Mansion House on Thursday evening, and Friday is to be given up to a visit to Oxford, when the

East London Soapworks) and Hon. Foreign Secretary (Dr. Ludvig Mond), were re-elected.

THE REPORT OF THE COUNCIL.

This was chiefly interesting on account of the increase of members, the number now reaching 4,359, as against 3,312 last year, the New York section having increased from 580 to 741. Reference was made to the cost of the "Collective Index," and to the fact that some of the back numbers of the *Journal* were destroyed in a fire at Messrs. Eyre & Spottiswoode's last year. This latter incident had made the Council resolve to increase the insurance on their stock of *Journals*. Reference was made to the deaths of several distinguished members during the year, especial mention being made of the death of Mr. E. C. C. Stanford, who was a past-President of the Society.

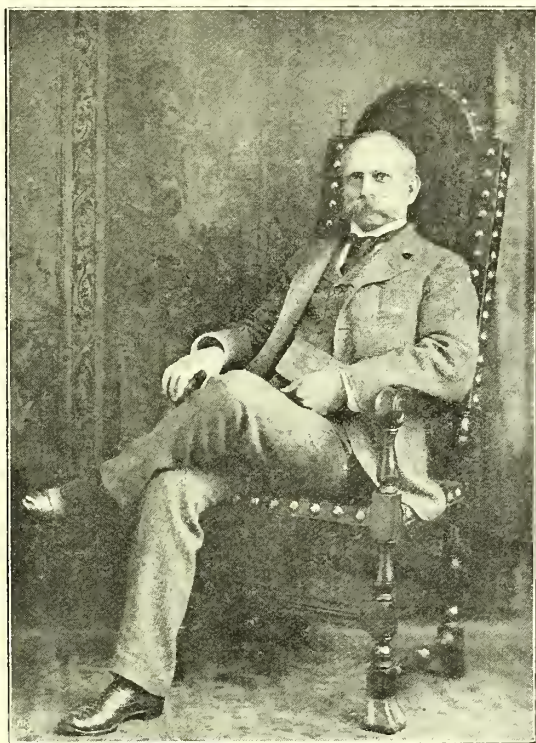
Mr. Otto Hehner moved that the report be received and adopted, and this being seconded the motion was affirmed.

THE TREASURER'S REPORT WAS THEN READ.

The expenditure in 1899 was 127*l.* 4*s.* 7*d.* more than the revenue, a sum of 434*l.* received in entrance-fees and in life-compositions not being treated as revenue, but going straight to investments. The following condensed account shows where the money came from and went to:—

Dr.			Cr.		
	£	s. d.		£	s. d.
Balances ...	289	15 10	<i>Journal</i> cost ...	2,993	15 11
Subscriptions ...	3,881	7 5	Sundries ...	61	1 8
Entrance and com- position fees ...	434	0 0	Collective index...	762	6 11
Collective index...	12	0 8	Sectional expenses	403	3 4
Interest ...	327	9 11	Secretary...	405	5 8
<i>Journal</i> ...	832	12 10	Treasurer's assist- ance ...	79	17 7
			Annual meeting, offices, and ex- penses ...	360	19 8
			Cash in hand ...	741	13 6
	£5,808	6 8		£5,808	6 8

A vote of thanks was moved to Mr. Hall (Treasurer) for his labours on behalf of the Society, and heartily accorded.



CHARLES F. CHANDLER, A.M., Ph.D. (Göttingen); M.D. (N.Y.); LL.D., Sc.D. (Oxon.), F.C.S., President S.C.I. 1899-1900.

members are to start from Paddington Station at 10 A.M. At Oxford they will be taken in hand by Mr. W. W. Fisher, M.A., F.I.C., F.C.S. (President of the Society of Public Analysts), Mr. G. Claridge Druce, M.A., Ph.C. (Fielding Curator of the Botanic Gardens), Mr. E. C. Alden, and other Oxford gentlemen, who will lead them to the best parts of the old city, its colleges, and churches. After luncheon at the Town Hall at 1.30 the visits will be resumed, and afternoon tea will be taken in the gardens of Worcester College, by permission of the Provost and Fellows, through the good offices of Professor Odling, M.B., F.R.S. During tea a selection of glass will be rendered, under the direction of Mr. E. Jackson, of New College Choir. Then more tour, a substantial meal at the Town Hall, and at 8.30 P.M. the train home.

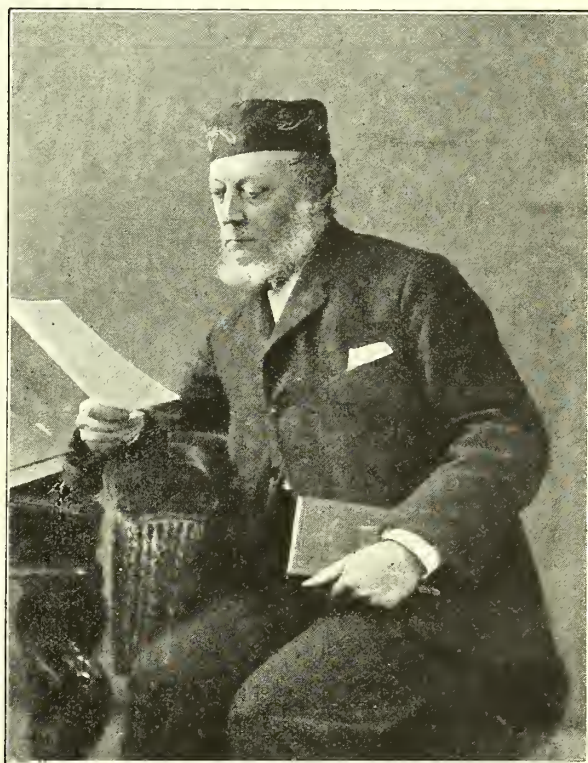
Returning (in the reportorial sense) to Wednesday morning, the lower portion of the R.I. lecture-hall was comfortably filled when Professor Chandler entered shortly after 11.

Among those present we noticed Professor Dewar, Professor Odling, Sir F. Abel, Dr. Mond, Col. Waterhouse, Mr. W. W. Fisher, Mr. A. H. Allen, Mr. M. Carteighe, Mr. G. B. Francis, Mr. David Howard, Dr. Power, Mr. Martin (Newcastle-on-Tyne), Mr. Boverton Redwood, and Mr. Watson Will.

The proceedings began with the reading of the minutes of the annual meeting in Newcastle-on-Tyne last year, the President introducing a little novelty by asking members who approved of the minutes to say "Aye," "Nay" being the contrary indication. Nobody said "Nay," so the

ELECTION OF THE NEW COUNCIL

was proceeded with. We need only indicate the changes. Mr. J. W. Swan takes the place of Professor Chandler as President. Professor Chandler, Professor G. G. Henderson (Glasgow), Mr. Walter F. Reid, Mr. Boverton Redwood, and Mr. A. Gordon Salamon, were elected Vice-Presidents; and Mr. Thomas Tyrer, Mr. E. A. Brotherton, Mr. Eustace Carey, Mr. Thos. Fairley, and Professor E. J. Mills, F.R.S., were elected ordinary members of Council. Various office-bearers, including the Hon. Treasurer (Mr. Samuel Hall,



DR. SCHUNCK, GOLD MEDALLIST.

THE PRESIDENT'S ADDRESS.

Professor Chandler said it was with great diffidence that he rose to address the Society of Chemical Industry in that edifice sacred to the memory of Sir Humphry Davy, Michael Faraday, Professor Tyndall, and many other famous workers, who had given them the facts and theories which constitute the foundations of the science to which they were all devoted. And more recently that lecture-hall had been the scene of the triumphs of Professor Dewar in producing the lowest degrees of temperature yet attained, and in compelling the reluctant hydrogen to assume the liquid and the solid state. Allusion was then made to the honour done to the New York Section by electing him President, and Professor Chandler went on to speak of

CHEMISTRY IN THE UNITED STATES.

In speaking of the teaching of chemistry, he said that in 1853, when he started out to secure a chemical education, there were only three or four places in the United States available—the laboratory of Yale College, one at Amherst College, a private laboratory in Philadelphia, and one newly opened at the Lawrence Scientific School at Harvard University. There was, however, a lack of organisation in American scientific schools which led to an exodus of students to European schools. It was to Göttingen and Berlin that Professor Chandler went. In 1863 Thomas Eggleston, a graduate of Yale College, published a plan for a school of mines and metallurgy in New York, which was eventually opened at Columbia in 1864. The school at once made a phenomenal success, and at the present time the University offers every kind of instruction possible—theoretical, practical, and technical.

They would be interested to know, said the Professor, that Columbia College was established by Royal Charter in 1754, in the reign of George II., as King's College, and that the Rev. Samuel Johnson, of Stratford, a Doctor of Divinity of Oxford University, came over in that year to become the first president. The Archbishop of Canterbury was a member of the first board of governors.

Professor Chandler also mentioned that those young men taking the mining or civil engineering courses devoted a long time in the chemical laboratories, and as a consequence were all practical chemists. As new subjects have been introduced into the curriculum the time for chemistry has been, however, curtailed. Reference was made to the splendid donations of Dr. T. K. Pearson, of Chicago, to educational endowments, his view being that educational facilities were the most permanent memorials a man could desire, and that it was far better to give the money in the donor's lifetime, so that he could see the good his gifts were doing.

But it is not necessary, he added, to go to America for examples of such liberality; had they not a monument of just such liberality in the Davy-Faraday research laboratories endowed by one of their past presidents?

He had before him a list of the sums of over \$5,000 given to their colleges, universities, and technical schools during the year 1899. The sum total was \$33,111,000. By far the largest sum was the \$15,000,000 given by Mrs. Leland Stanford, together with large tracts of land to which no precise value could as yet be attached, to complete the endowment of the Leland Stanford Junior University. Next on the list came the gifts of Mr. Andrew Carnegie, which amounted to \$2,235,000. There were four items of \$1,000,000 each, in all 174 donors, averaging \$190,000 each.

Schools of chemistry were so numerous that it was almost impossible to state with any accuracy the precise number that they had. Almost every university, college, or technical school had its chemical laboratories, where special instruction of a more or less elaborate character was given. All their larger institutions had special courses for the education of chemists. There were 64 colleges of agriculture and mechanical arts founded upon gifts from the United States Government of the Public Lands, every one of which was a school of chemistry. He thought he was safe in saying they had more than 100 schools of chemistry. In all they had 480 universities and colleges and 43 technical schools not included in that list. Professor Baker, President of the Society for the Encouragement of Engineering Education, had informed him that in the year 1899 there were 9,784 students pursuing professional courses in their schools of

engineering, and that 1,487 graduated that year, receiving the degrees of civil engineer, mechanical engineer, electrical engineer, or mining engineer. No one, he said, could estimate the value to the industrial development of the United States of the education of such an army of thoroughly trained engineers and chemists.

CHEMICAL SOCIETIES.

The first step in the establishment of a Chemical Society was the suggestion, early in 1874, by Professor H. Carrington Bolton, that that year might be very properly regarded as marking the beginning of modern chemistry, and suggesting that the chemists should meet and enjoy a social reunion in commemoration of events important alike to science and civilisation. The reunion took place at the grave of Joseph Priestly, in Northumberland, Pa., where he found an asylum, when compelled to leave England, and where his grandchildren still lived. They met on August 1, 1874, the 100th anniversary of the discovery of oxygen, at the grave of Priestly, to celebrate the centennial of chemistry. The convention lasted three days, and was full of interest. The success of this movement led soon afterwards to the creation of the American Chemical Society, which was organised under a charter from the State of New York, and he had the pleasure of nominating for first President of that Society an Englishman, John W. Draper, who was duly elected. This Society had grown in influence and importance, until at the present time it had 1,544 members. Following the example of the Society of Chemical Industry, it began a few years ago to organise sections in different parts of the country, of which there were at present eleven in successful operation. As they were well aware, early in 1895 their Council authorised the establishment of a New York Section of the Society of Chemical Industry. They were chiefly indebted to the late Mr. Mason, who became the first chairman of the section, and to his predecessor, Mr. Tyrer, for initiating the movement which led to this result. This section had grown with great rapidity, and at the present time there were 738 members of the Society resident in the United States, most of whom had enrolled themselves as members of the New York Section.

Professor Chandler then spoke of the establishment of a chemists' club in New York, which was intended to give technical advice to chemists, and of a system of a duplicate library which was to come into operation soon—the one part to circulate throughout the country and the other to remain at the club.

CHEMICAL RESEARCH

had formed a considerable part of the duties of many of the teaching chemists of the country, but they were as a rule so overburdened with duties that they had little time for original work. Mention was made of the splendid work of the Agricultural Department under Mr. H. W. Wylie. Mr. Wylie had discovered a method of making pure cane-sugar from sorghum-juice, and was now working on a comparative study of the typical soils of the United States. Soils were obtained from many localities, even from the celebrated agricultural-experiment station at Rothamsted, in England. These soils are being subjected to absolutely the same conditions and the same treatment, and the crops which have been produced have been carefully examined. All of the soils had been carefully subjected to analytical treatment by standard methods, with the object of determining the methods corresponding most nearly to the actual crop-results. Data of the most interesting kind from a practical point of view had been secured as a result of these investigations, and soil-maps were being prepared for publication.

Interesting particulars were then given of the work of Osborne, Teller, Atwater, and Mallett, and then Professor Chandler went on to speak of the

CHEMICAL INDUSTRIES

of the United States.

Statistics show that the chemical industries of the United States have made very material progress in recent years. The coal-production was last year over 218 million short tons (short ton = 2,000 lbs.), 25 million tons of iron ore was mined, and the United States produced 55 per cent. of the world's production of copper. The manufacture of artificial fertilisers and superphosphates has caused the rapid growth

of the sulphuric-acid industry, there being at the present time seventy-five fertiliser-works, south of Maryland, making sulphuric acid.

Professor Chandler then alluded to the liquefied-gas industry, and spoke of the great success that had attended inventors in devising machinery for making liquid air, but he regretted that the subject had developed in the direction of stock companies—a premature development, seeing that no well-defined application of liquid air had yet been worked out. In electro-chemistry, Professor Chandler gave a delightfully clear description of the manufacture of aluminium at the Niagara Falls.

The vessels or pots employed in the making of aluminium are rectangular iron boxes, thickly lined with carbon, and

increases fourfold. In order that the workmen may be made aware of the state of the bath, an incandescent lamp is attached to each bath, which emits no light during the low resistance, but which shines brightly when the resistance, and consequently the electromotive force, at each bath increases sufficiently, so whenever one of the incandescent lamps begins to shine the workmen hasten to stir in a fresh supply of alumina. The process proceeds quietly day and night. It is only necessary to keep the baths supplied with alumina, and every twenty-four hours tap the pots and draw off the metal. There are over 100 of these pots altogether, and the yield is about 100 lbs. of aluminium per pot every twenty-four hours, or about 10,000 lbs. altogether.

Other interesting industries were touched upon, such as

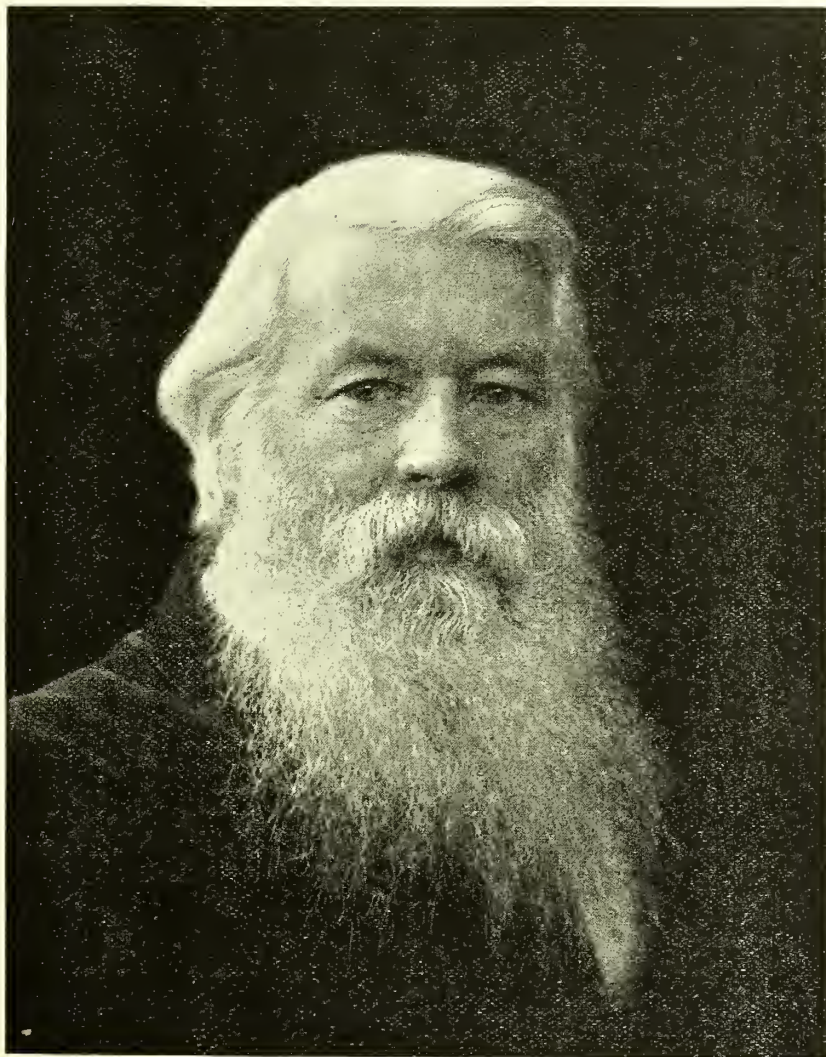
the petroleum industry, water-gas, incandescent mantles, beet and starch sugar. In regard to the gas-supply which the Professor said seemed to be troubling the English people just then, he investigated the merits of coal and water gas some years ago, and concluded that the difference in danger between the two was about equivalent to drowning in a 10 feet and 30 feet deep mill-stream. (Laughter.)

The President was loudly cheered at the conclusion of his address.

Mr. Swan (the President-elect), in moving a vote of thanks to Professor Chandler for his Presidential address, said the President had fulfilled this, the first and last duty of his year as President, in a manner which fully sustained the prestige of the Society. (Hear, hear.) The address he had delivered called from them the warmest thanks and congratulations—it was characterised by a breadth of knowledge, a depth of insight, and a mature wisdom which were the gathered fruits of deep and long and varied experience. The address was encyclopædic in its scope, and formed a worthy successor to the eighteen presidential addresses that had preceded it. (Applause.) Besides it formed a unique chapter in the history of the Society, as in this instance they had departed from usage and had crossed the Atlantic to select the President from the New York Section. Their experiment had been successful—in fact, he ventured to say that in that theatre of successful experiments no success had been more successful. (Loud applause.)

Mr. Geo. Beilby (Deputy-President) seconded the vote of thanks, and it was accorded loud and continued applause.

Professor Chandler, in a charming reply, said he had been overwhelmed with kindness since his arrival in this country. He was sure the Section in New York most highly appreciated the honour of electing one of their members President of the Society, and he felt himself that it carried out and emphasised the warm fellow-feeling that had grown so strong recently between all branches of the Anglo-Saxon race. (Applause.) He congratulated the Society on having elected as its next President the distinguished electrician Mr. Swan. (Applause.)



JOSEPH WILSON SWAN, M.A., F.R.S., President-Elect S.C.I.

exhibiting a cavity in the carbon about $4\frac{1}{2}$ feet long by $2\frac{1}{2}$ feet wide, and about 6 inches deep. The carbon lining constitutes the cathode. The anodes, 40 in number (four rows of 10), consist of carbon cylinders about 3 inches in diameter and 18 inches long when new. They are supported above the pot, dipping into the bath of fused fluorides. No external heat is employed, the heat developed by the resistance to the current being all that is necessary to maintain fusion. Alumina is added from time to time as required. The process goes on quietly, the resistance offered by the bath charged with alumina being very low, but the moment the alumina is exhausted the resistance

THE SOCIETY'S MEDAL.

Professor Chandler, again rising, said it was now his pleasure to present the medal of the Society awarded for distinguished services rendered to applied chemistry either by research, discovery, invention, or improvements in processes. The medal was awarded biennially, and the previous recipients were Mr. John Glover and Dr. W. H. Perken, sen., F.R.S. The third medal would now be awarded to Dr. Edward Schunck for his researches in colouring-matters. For forty years the scientific journals of England and Germany contained articles embodying the results of the investigations of Dr. Schunck. The work began with the action of nitric acid on aloes, this being followed by research on the colour lichens such as litmus. Madder and indigo were especially investigated, Dr. Schunck proving that indigotin did not exist ready formed in the plant. Much work was done in natural and artificial alizarin, the presence of anthroflavic acid in the latter being first proved by Dr. Schunck.

The President then left his chair to present the medal to Dr. Schunck, who thanked the President and the Society for the honour they were doing him. Dr. Schunck was almost inaudible in the remainder of his speech, but speaking of the use of artificial indigo, he said he had indicated the lines on which it was still possible for the manufacturer of natural indigo to compete with artificial indigo, and finished by reminding members that he was of great age, and could hardly hope to meet them many more times. If it was not to be so, he would take the opportunity of wishing the Society an affectionate farewell. (Loud applause.)

PRESENTATION OF SOUVENIRS.

Mr. Thomas Tyrer in the name of the Society presented to Professor Chandler a beautifully-illuminated photographic album, containing photos of most of the past and present officials, and notable members of the Society, and Professor Chandler having suitably replied,

Dr. Boverton Redwood made a similar presentation, also on behalf of the Society, to Mr. Geo. Beilby (Deputy and Past-President).

Mr. Beilby having returned thanks,

The auditors were reappointed, and Mr. Geo. Beilby was chosen as representative on the Board of the Imperial Institute.

THE 1901 MEETING.

Professor Henderson, of Glasgow, then tendered a hearty welcome from the Scottish Section that the Society should meet in Glasgow next year.

The invitation was accepted, after which

Mr. David Howard proposed a vote of thanks to the managers of the Royal Institution for the use of the lecture-theatre, which was carried with acclamation.

Dr. Ludwig Mond replied on behalf of the managers of the Royal Institution, and the meeting adjourned.

THE DAVY-FARADAY RESEARCH LABORATORY

was then visited by those members who wished to see it, as also an interesting collection of relics of Davy and Faraday which were being shown in the library, after which the whole of the members adjourned for luncheon in the Princes' Hall of the Criterion Restaurant.

EXCURSIONS.

The members then separated into groups. Group A visited the printing-offices of George Newnes (Limited), and the Government Laboratories, Clement's Inn. Group B went to see the printing-works of the *Daily Mail*, and the art-glass works of Messrs. Powell & Sons, Whitefriars. Group C went to Southwark to see a turn-out of the Metropolitan Fire Brigade, Commander Wells receiving them, and visited the Guildhall School of Music.

The Dinner.

On Wednesday the members dined together at the Hotel Cecil. Professor C. F. Chandler received the guests from 7 to 7.30, and introduced each to the President-elect. Amongst those present were Lord Alverstone (Master of the Rolls), Mr. Jesse Collings, M.P., Sir F. Abel, Professor Dewar, Alderman and Sheriff Treloar, Sir W. Preece, Mr. J. Fletcher Moulton, Q.C., M.P., Professor Armstrong, Professor

J. Millar Thompson, Professor Dunstan, Dr. Ludwig Mond, F.R.S., Mr. Thomas Tyrer, Mr. G. B. Francis, Mr. W. Martindale, Mr. E. M. Holmes, Mr. G. T. W. Newsholme, Mr. Boverton Redwood, Mr. A. Ball, Mr. Burford (Leicester), Dr. F. B. Power, Mr. Frederick Boehm, Mr. Domeier, Mr. J. F. Fuerst, Mr. C. T. Tyrer, and the Presidents of most of the Scientific Societies in London.

After an excellent dinner, Professor Chandler proposed the toast of "The Queen" in characteristic fashion. "Gentlemen," he said, "the Queen and the Royal Family are as much honoured in my country as in yours."

Mr. Boverton Redwood read a letter of regret at his inability to be present from the American Ambassador (Mr. Choate).

Mr. Jesse Collings submitted the toast of "The President of the United States," and spoke highly of the American people, its elected chief of state, and its energy and vitality in manufactures. He had found during an extended visit last autumn that the manufacturers of the United States were far in advance of this country—a state of affairs which the Society of Chemical Industry was doing its utmost to correct. (Applause.)

Professor Chandler responded to the toast, telling the company all about "16 to 1" and the Republican party with which he has always voted.

Mr. Boverton Redwood then announced, amid loud cheers, that having for the first time in the history of the Society an American President, it was proposed to signalise the happy occasion by sending the following cablegram to President McKinley:—

The Society of Chemical Industry, assembled at its annual banquet, presided over by Professor Chandler, of Columbia University, sends its respectful greetings to the President of the United States, not unmindful of the fact that of the 3,500 members of the Society, 800 are Americans.

Sir F. Abel submitted the toast of "The Houses of Parliament," speaking of the forensic skill of the two gentlemen who were to reply.

Lord Alverstone, in responding for the House of Peers, referred to the scientific members who had made themselves famous, not only by their legislative efforts, but by their scientific attainments, the work of Lord Ross, Lord Rayleigh, Lord Kelvin, Lord Armstrong, Lord Salisbury, Lord Lister, and the late Lord Playfair being referred to. Men of the House of Lords, speak against them as people would, could show ability, energy, and self-sacrifice, which was as noble an example as any other section of the nation could show.

Mr. J. Fletcher Moulton, Q.C., M.P., responded for the House of Commons, referring at some length to the interest of the House of Commons in all matters pertaining to the pursuit of chemical industry under healthful conditions as set out in the Factory Acts.

Mr. J. W. Swan then proposed "The Society of Chemical Industry," comparing it, seeing that the President lived in America, to Tesla's latest invention, the "telautomaton," an apparatus which, it is claimed, can be governed at a distance and made to move in any direction without the presence of a controlling force.

Professor Chandler replied in a short speech, and said that his children and grandchildren would look back on his having been President of the Society of Chemical Industry as the greatest honour that had come to their family.

Dr. Mond proposed the final toast of "Our Guests," to which Sheriff Sir W. Treloar and Major F. L. Nathan (of the Royal Gunpowder-factory, Waltham Abbey) replied.

GERMAN ITEMS.—The annual meeting of the Apotheker-Verein will take place at Stuttgart on September 4 and 5. The principal subject for discussion is the ever-"burning" question of the regulation of the apotheker system.—A union of pharmaceutical manufacturers and allied branches has been formed in Berlin for the purpose of furthering general interests and putting down disloyal competition.—Messrs. E. Merck, of Darmstadt, will shortly place on the market antidiphtheritic sera of 1,000, 1,500, 2,000, and 3,000 immunity units.—A terrible typhoon caused immense damage in Tsingtau (German Kiao-tschau) on May 26. The new apotheker and the lazareth were both demolished.

Metropolitan College of Pharmacy.



idea of starting a school for chemists' apprentices and assistants in Bloomsbury Square. From 1842 to 1868 one school

advance of pharmaceutical education in Great Britain during the past five-and-twenty years has been singularly rapid compared with the earlier period of pharmaceutical history from the time that Jacob Bell, fresh from the lectures by Brand and Faraday, conceived the

It is, perhaps, not quite fair to say all this as a preface to some notes which we have made of a visit to the Metropolitan College of Pharmacy in Kennington Park Road, S.E., but Mr. W. Watson Will, the principal of the school, was very early imbued with "Square" principles, and his subsequent experience as a lecturer and demonstrator elsewhere suggests the dual line of thought.

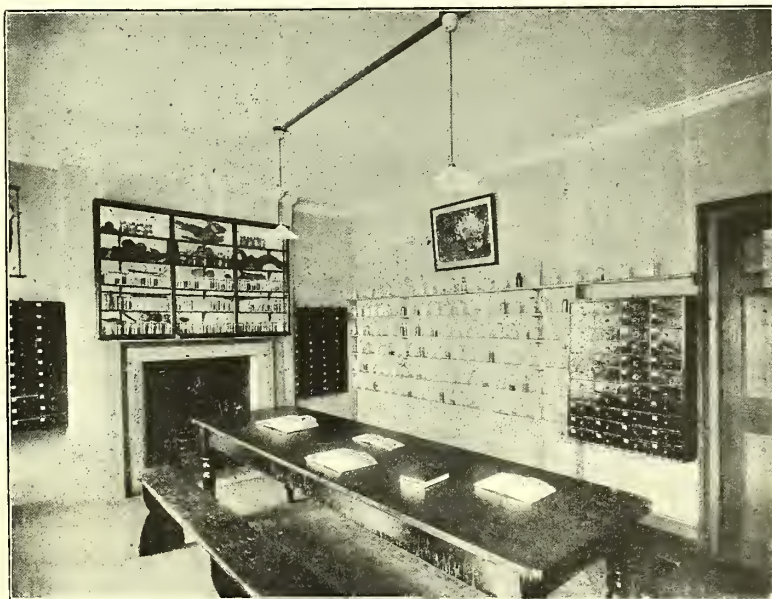
It thus happened that he came in 1893 to the corner house, 162 Kennington Park Road (which is microscopically depicted in the initial letter), an experienced "coach," and what is at least equally essential for the successful teacher, an experienced pharmacist. He served his apprenticeship with

the late Mr. John Reid, of Montrose, after which he was in a Manchester pharmacy, then went to Brighton, where he was for four years principal assistant to Mr. O. Brew, and for some years after that he was with Mr. Octavius Corder, of Norwich. It was while he was with Mr. Corder that he published numerous papers dealing with chemical and galenical subjects, and when time has permitted during the past fifteen years others from his pen have been printed which indicate his ability as a practical pharmacist. So that appreciation of the needs of the practising pharmacist, as well as the immediate requirements of the student of pharmacy, were thought of by Mr. Watson Will when he fitted his modest College seven years ago. What the College was then we can only imagine, for now he has added to it No. 160, a house of equal accommodation and the combined gardens have given him space upon which he has built an architecturally modest two-storey building, which provides him



DISPENSARY.

sufficed to coach the whole British world of pharmacy, for although the late Mr. Braithewaite, Mr. W. Augustus Tilden, B.Sc., and a few other men of a bygone generation have left evidence in advertisements that coaching of students of pharmacy at so much per hour was in demand, there was no rival to the Square School until the Pharmacy Act, 1868, made examination compulsory. Then unofficial schools began to spring up, and it is not surprising to learn that they did not follow Bloomsbury methods, but regarded their business as that of preparing students for the examination which the law had made compulsory. They did this so thoroughly that the cry of "cram" was ere long heard, and when that seemed to foster the growth of proprietary schools those who cried "cram" began to wonder if the old methods of pharmaceutical teaching were suited to the new purposes, and in good time the Square "squared the circle."



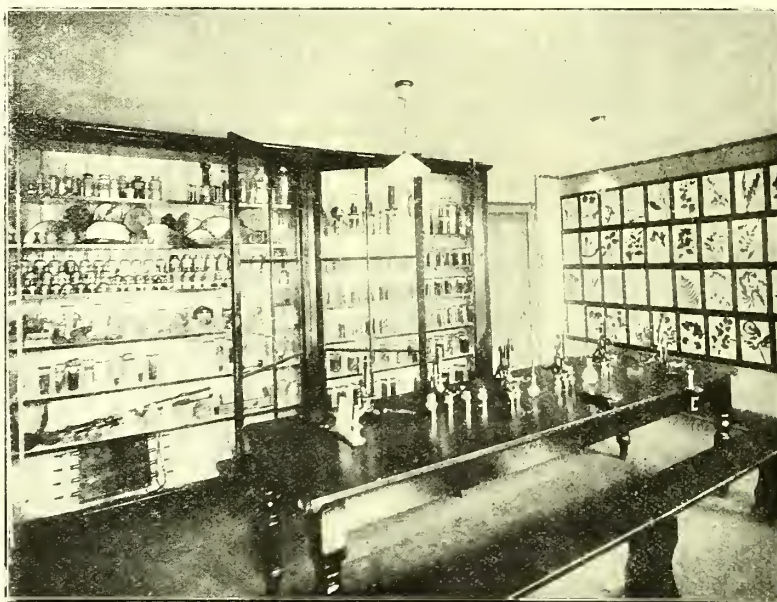
A MATERIA MEDICA MUSEUM.

with a magnificent lecture-hall and a chemical-laboratory which in lighting, equipment, and finish are unsurpassed by the schools of pharmacy of the Kingdom.

One thing which struck us forcibly during our visit to the College was that in extending it Mr. Watson Will had consistently and literally doubled the accommodation of the College. Thus, where there was one materia-medica or histological museum, there are now two, each the duplicate of the other, so that the principle of small classes can be maintained whereby the individual attention essential to thorough training is not sacrificed. The houses fronting in Kennington Park Road are entirely devoted to such purposes, the necessary offices for the principal and secretary and several store-rooms also being located in these buildings. It would serve no useful purpose to describe the arrangements in detail—*i.e.*, as to where each particular room is located—and we must allow the pictures to tell their own story to a great extent.

For some reasons the dispensary struck us as being one of the most businesslike parts of the old College. This was formerly, we believe, the class-room. It is a large, well-lighted apartment, and in the centre of it has been erected a square dispensing-bench, fitted all round with dispensing-shelves in a fashion which recalls the dispensing-counters adopted by the Pharmaceutical Society at Galen and York Places. The demonstrator sits in the centre and directs the operations of the students, generally allowing them to use

the course of a session's tuition he has such a variety of work to go through that it fairly covers the experience in dispensing gained during an average three years' apprenticeship. To this dispensary there is a pharmacal annexe where galenicals are manufactured, one of Mr. Watson Will's ideas being

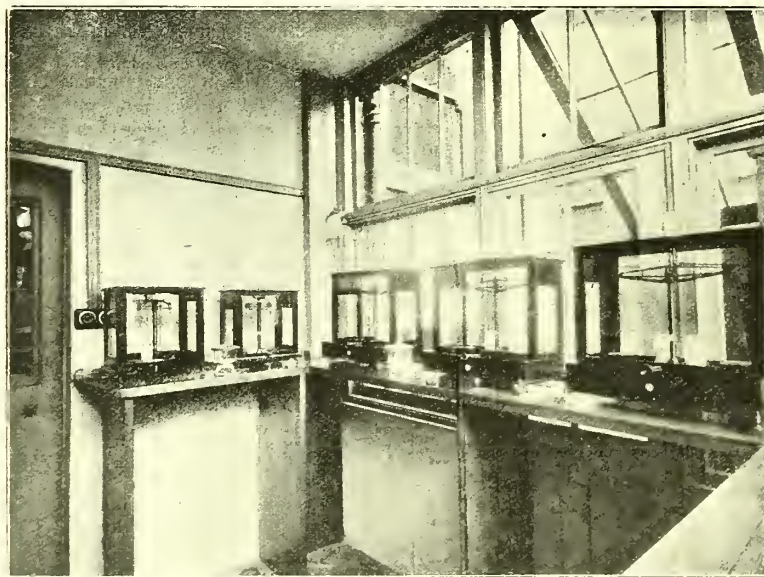


A BOTANICAL AND HISTOLOGICAL MUSEUM.

that every candidate for the Minor examination should actually make every article that an average pharmacist can make

That pleasant relaxation known as "spotting" galenicals is carried on in the materia-medica museum, where there are

complete sets of B.P. galenicals, placed in good light and convenient of access. The chemical and materia-medica specimens are good also; the majority are, properly, fair commercial samples, but the wall-cases contain many exceptionally fine specimens or rare ones, and adulterants are exemplified by modern instances as well as text-book traditions. The histological laboratories are a revelation to the man who passed through his student days with the microscope as a pastime, and with no expectation that examiners would trouble about its revelations. Nowadays the Minor man must have an eye trained to familiarity with botanical structures, and Mr. Watson Will has made excellent provision for every student getting a course of instruction in working the microscope, preparing sections, and so forth. The working-benches are so arranged that when daylight fails electric light can be turned on at will, each student having an incandescent lamp (mirrored on one side), which is ingeniously fitted to the bench with ball-and-socket joint that permits



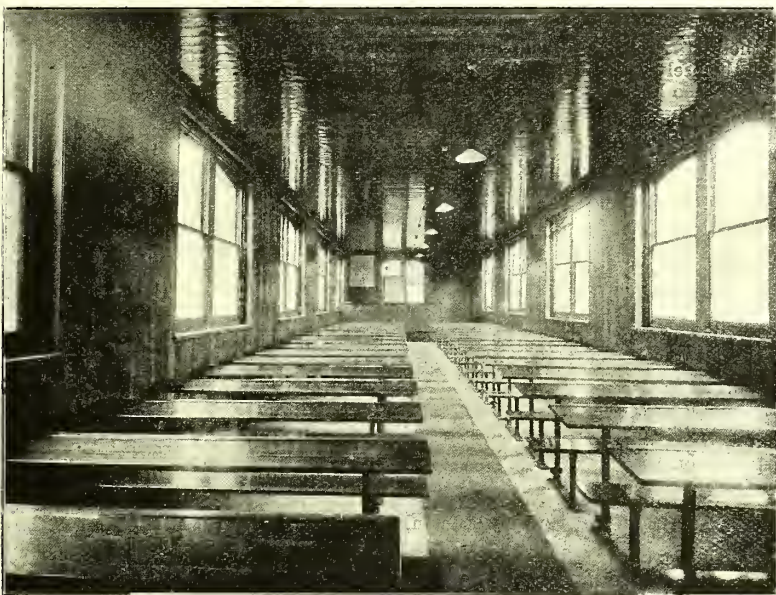
THE BALANCE ROOM.

their own judgment, and when that judgment is sound it impels the student in difficulties to appeal to the man in the centre. Each student is provided with every bit of apparatus and material required for the work he has to do, and in

ready adjustment. In the same rooms dried botanical specimens are provided, as well as numerous atlases, diagrams, natural specimens preserved in spirit, and exquisite models.

Mr. Watson Will took us through several other apartments devoted to study, such as the physics-room, where specific gravities and the like are determined; a prescription-room (here there is a marvellous collection of examination prescriptions), and a distillation-room, each one being a

the morning hours before noon the windows are fitted with blinds which darken the hall in ten seconds. Hundreds of slides (botanical, histological, &c.) are available, and one could not help feeling how lucky the students of to-day are to get such things freely shown and explained. It is such a marked contrast to the ponderous learning of twenty years ago.



LECTURE HALL.

type of orderly arrangement and, what is even rarer, scrupulous cleanness.

The connecting-link between the old premises and the new lecture-hall and laboratory is the balance-room. For convenience this has been placed at the back basement, beside the staircase of the new chemical laboratory. It contains typical examples of the balances of various makers, so arranged that several students can carry on simultaneously the delicate operations of weighing without interfering with one another. The room is of constant temperature, and the south wall and roof are entirely of glass.

We now approach the lecture-hall in the new building, the foundations of which were laid four years ago, but some officious person who had H_2S on the brain managed to delay the erection of the building, so that it was not until the beginning of last term that Mr. Watson Will was able to use the hall and laboratory above for educational purposes. As the picture shows, the hall is a magnificent apartment. It measures 70 feet in length and 21 feet in width. The benches are comfortable pitch-pine furniture, and the lecturer's table is at the south end, near the doorway. The table is fitted up so that it may be used for botanical, chemical, and physical demonstrations. The inevitable board and the rarer lantern-screen form a background. Mr. Watson Will uses an electric demonstration lantern, and as all his lectures are given in

that in the short time he had made so many friendships with men widely scattered over the globe. A chance remark from Mr. Watson Will that he had a West Indian in his class then (a *C. & D.* subscriber, by the way) led to some interesting in-

The chemical laboratory occupies the floor above the lecture-hall. It is fitted with a double bench, which goes down the centre of the apartment and there is a bench at each side. These provide working-spaces, each with sink, gas, and reagents, for eighty to ninety students. Fume-cupboards are placed at the ends of the laboratory. The provision for thorough practice of qualitative and quantitative analysis is complete. Mr. Watson Will has the good fortune to be helped by three experienced pharmaceutical assistants who have caught his educational enthusiasm without losing the fraternal spirit common to students of pharmacy, and to these gentlemen the duties of demonstration chiefly fall, the principal, perforce, contenting himself with a daily round, during which each student's work and progress are scanned.

The writer had no idea until he had walked through the place and returned to rest in Mr. Watson Will's cosy room



CHEMICAL LABORATORY.

formation about men who have "graduated" from the school. Many are in South Africa, some in Australia, others in India, at least one in Kobe and another in Newfoundland. In the seven years that he has been at work in the Metropolitan

College 70 have passed the Major and 500 the Minor examination from the College. It is the boast of Miss Buss's school in North London that one in every ten of the women who have graduated at the London University is a "North London" girl; so might Mr. Watson Will well say that one in ten of those who pass the Major is a Metropolitan man, but the proportion of those who pass the Minor from this College is at present much closer than that. Thus in July of last year out of every three who passed at Galen Place one was a pupil of Mr. Watson Will's. Besides doing their statutory duty the pupils have otherwise distinguished themselves—academically and athletically. They did not win the Football Cup last spring, but then it was their principal who presented the cup to the Intercollegiate League, and to allow it to remain at Kennington would have been bad policy, though the best play.

War Notes.

THE CONDITION OF JOHANNESBURG PHARMACIES.—Our Johannesburg correspondent, who has been volunteering with the R.A.M.C. during Sir Redvers Buller's operations in Natal, has been informed from a good source that there is scarcely one drug-store wrecked in Johannesburg, but that very few are intact, so far as stock is concerned, looting evidently being prevalent, as we have already been led to expect. Our correspondent, however, is convinced that as a whole the inhabitants of the town will be agreeably surprised on their return to find so little wilful damage to property and premises.

A CHEMIST'S TESTIMONY OF HOSPITAL-TREATMENT.—Trooper Arthur Ashford, of the Hants Imperial Yeomanry, formerly a chemist, and now attached to the Rhodesia Field Force, writes as follows to his brother, Mr. Ashford, chemist and druggist, of Far Cotton, Northampton, from Bamboo Creek:—

I have just got over an attack of malaria fever. I was nearly a week in the hospital, and was treated more like a dog than anything else by what I should call "doctors' errand-boys. Salts and quinine were the only medicine I received, but I am pleased to say that I am feeling better again, although still a little weak. My bones are raw with lying on the hard ground. Cecil Rhodes paid us a visit before leaving 23 Mile Creek. It took us nine hours to get up here, a distance of twenty-five miles. Just before we left we ran into the hospital-carriage and knocked it off the rails. It was full of sick at the time. We were packed twenty-five men in each coal-truck, with our knees up against our chins, having our kit-bags packed where our feet ought to be. We did not leave until 11 o'clock at night, so you may guess what an awful journey it was. We expected to get into another train here, but water having run short, there was none to run the engine! There are about 300 horses here belonging to the Artillery. Lions get through the barbed-wire fences nearly every night after them, with the result that several of the horses have died of fright.

ASTHMA CIGARETTES COMMANDEERED.—A sergeant in the Royal Irish Regiment writes from De Aar on June 17 to the Londonderry *Sentinel* as follows:—

I have been on the move lately to a place called Prieska with a convoy, and a very weary journey it was, as we had nothing but oxen, and you know how they travel. About one and a half mile an hour is their best. It took us nearly three weeks to do a little over one hundred and fifty miles. We had some of the Imperial Yeomanry with us, and they are fine, willing soldiers, but they cannot rough it as we can, and as the nights were so cold it was very trying for them. We got on much better on our way back, as our loads were lighter, our rations shorter, and our small store of tobacco exhausted. You know we are not allowed to loot, so we did a little commandeering just to keep our jaws in working order. On one occasion a corporal of the Yeos rode out to a deserted farm and brought back as much as his horse could carry of all sorts. We had rather a sell in a box of cigarettes he had with him. We hadn't had a smoke for some days, so we weren't very particular what sort of tobacco we got, but these fags beat Banagher. We thought we would choke. Imagine our surprise and disgust when we found on looking at the box to find that they were for asthma, and to crown it all were the Molenia cigarettes, made by Prior & Co., Londonderry. I don't know how the box got there, but you ought to call and tell them. I will bring the box home—that's if I ever get home myself. There have been a lot of rebels around Prieska way, but we did not encounter any, so I think they are commencing to see their folly, as they are giving up their arms in dozens.

The Pharmaceutical Aviary.



"The Close" Bird.

This plump bird was reared in the official nest of the aviary, and early distinguished itself by its discriminating powers in the selection of seeds and other *materia medica*. It is rarely seen in the aviary now, except to examine the golden grain, as it prefers 'Change. It is the leader of the guinea-fowls, turkey-cocks, and other members of the *Drusus wholesalensis* var. *Clubei*. In its early days it had *en vacance* pecking acquaintance with the Gallic cock. Being a peaceful, well-disposed bird, it is favoured by all the other fowls that gather on the market-place, and by those with a mincing gait. Its favourite food is "Savars" sundries.

Trade-Marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with C. N. Dalton, Esq., C.B., Comptroller-General of Patents, Designs, and Trade-marks, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form J, cost 1*l.*, obtainable through any money-order office.

(From the "Trade Marks Journal," July 11, 1900.)

Device of New York Statue of Liberty; for medicated articles generally. By R. J. La Grange, 72 Sefton Terrace, Liverpool. 228,554.

Device of primroses and wording; for pills. By W. P. Wiglesworth, 63 St. Paul's Churchyard, E.C. 228,603.

"MAGSAN"; for herbal remedies. By W. Sansom and D. MacKenzie, 1 City Garden Row, London, N. 230,661.

"FRUTONO" (no claim for "Fruto"); for beverages. By C. H. Searle, 36 Crutched Friars, E.C. 230,785.

"THOM'S MODEL SOAP" and device of bombshell; for soap in Class 47. By David Thom, Domeier & Co. (Limited), Whit Lane Works, Pendleton. 225,006.

"MAHAL" and device of gipsy, fire, and girl; for hair-restorer. By A. Haggard and E. Fowler, Suffolk Street, Pall Mall, W. 230,137.

"SANDOW'S SKIN-CULTURE," portrait and signature; for perfumed soap. By Eugen Sandow, Savoy Corner, Victoria Embankment, W.C. 227,048.

"MYRSHA"; for perfumery and toilet-articles. By W. H. Ringland, 20 Ashfield Road Ranelagh, Dublin. 231,269.

MR. C. CATTELL, who has been managing the branch of Lennon (Limited), at Bulawayo since 1895, has just resigned that position and returned to England. To show the esteem with which his services have been regarded, and the pleasant relationship which has always existed, Lennon (Limited) have presented him with a gold watch, suitably inscribed.

Observations and Reflections.

By XRAYSER.

TEN-POUND FINES under the Sale of Food and Drugs Act have been hitherto reserved for cases in which fraud or gross negligence have been proved or very strongly suspected. The infliction of such penalties in the sodium-phosphate cases last week was surely uncalled-for and scarcely just. No one can complain that the Paddington Vestry should have taken every reasonable means to ensure that the utmost publicity should be given to the danger they had discovered. No doubt it came rather hard on the defendants that the arsenical stuff should have been bought from them on June 6, and that they should not have shared in the advantage of the cautionary notice which the Sanitary Committee published on June 21. But a police-court hearing may have been thought necessary for the sufficient protection of the public, and for the proper investigation of the serious allegation. This may be admitted. But the chemists selected to thus serve the community were not, as the Magistrate must have known, one atom more guilty than any other retailer of the same article—nor, for that matter, than any other member of the public, the purchaser himself, for example. No chemist in England had ever dreamed, up to the day when these samples were bought, of opening a bottle of the effervescent phosphate of sodium to test it for arsenic. And there was a fair chance that any other chemist who might have sold a bottle would have infringed the law just as much, or as little, as these chemists had done. Would not, therefore, a formal conviction and a nominal fine at the outside have fully met the requirements of the case?

THE EXPLANATION of the presence of the arsenic in the preparation put forward by the scientific witnesses for the defence is by no means the least mysterious part of the affair. The $8\frac{3}{4}$ gr. of arsenic in the pound of the effervescent salt corresponds with $17\frac{1}{2}$ gr. in the pound of the phosphate of sodium used. This, we are told, was derived entirely from the sulphuric acid used in the first stage of the process of manufacture—namely, the decomposition of the bone-ash. To produce 1 lb. of phosphate of sodium about 1 lb. of sulphuric acid would be required. That would have had to be unusually contaminated with arsenic to have provided the quantity for this impurity. The obvious reply is that sulphuric acid should not contain arsenic, and the B.P. says it should not; but had the writer of the descriptive paragraph in the B.P., which states that "disodium hydrogen phosphate may be obtained by the interaction of sodium carbonate and the solution of acid calcium phosphate produced on mixing bone-ash and sulphuric acid," anything else than manurial superphosphates in his mind?

"POISONOUS" CARBOLIC ACID.—I have heard the question discussed whether, under the form of scheduling suggested by the Privy Council, unqualified persons will be entitled to sell for any purpose those exempted bottles of preparations of carbolic acid "prepared for use as a sheep-wash, or for any other purpose in connection with agriculture or horticulture." It seems to me there can be no doubt they may. Bottles of carbolic-acid preparations labelled as indicated are outside the schedule. They are no more legal poisons than is sugar. There is therefore no law to restrict their sale. No penalty could be imposed on the sellers for selling an article which is not a poison; certainly not under the Pharmacy Act. And this consideration seems to be the answer to the suggestion made by Mr. Glyn-Jones at the Council meeting, that the Privy Council should be asked to sanction the alteration of the word "prepared" for certain purposes, to "sold" for such purposes. This could hardly be legally stipulated. It is possible to put a certain preparation of a poison outside the Act, but unless this is done it cannot be sold by unqualified persons at all, and the Privy

Council could not declare conditions under which the express words of the Statute might be evaded.

MESSRS. HOVENDENS, I am glad to see, have succeeded in their appeal action against the wholesale tobaccoists who had given $2\frac{1}{2}$ per-cent. commissions to their buyers. The jury in the lower court, it may be remembered, found that these commissions, though they might have influenced business, had not affected the prices charged to Messrs. Hovendens, and therefore assessed the damages caused them at one farthing. May I be excused for quoting here the remark I made in these notes on May 19 last in respect to this finding of the jury? I said:—

Their opinion that Messrs. Hovenden had suffered a farthing's worth of damage was obviously illogical. They had either suffered damage to the amount of the presents given to their servants or none at all.

The unanimous view of the Court of Appeal is that the damage done to Messrs. Hovendens was measured by the value of the presents given to their servants, and Lord Justice A. L. Smith says the jury ought to have been so directed. Let those who disagree with any opinions expressed in this page take note that, as in the case just cited, the opinions prevail ultimately.

THE SHORT HISTORY of the PRELIMINARY EXAMINATION related last week shows how much more cultured our younger chemists must be than were their predecessors. I am unfortunately associated with those whose classical examination was passed when (according to my Editor, and undoubtedly) "the scope of subjects was neither wide nor deep," when "the arithmetic was foolishly simple," and before Virgil's polished verse was provided by the examiners to satisfy the cravings of the schoolboy's poetic soul. The Virgilian period has continued long enough to justify an inquiry as to the results of that higher and broader and deeper education which has been forced on our more recent pharmacists, and which was to advance our position so surely. Are the new chemists so much more scholarly than the old ones? There are no statistics available. The older generations, notwithstanding their slender equipment of the learning of the examination-rooms, founded a few things which live yet: the Pharmaceutical Society, the British Pharmaceutical Conference, THE CHEMIST AND DRUGGIST, the Pharmacy Act, schools, lectures, discussions, and some flourishing businesses. What have the cultured young gentlemen done on their Virgil diet so much better? Cinderellas, smoking-concerts, the P.A.T.A., and a few junior associations which have not all been conspicuous successes. Ah, but they have their time before them; and what may not be expected from those who will follow them, and whose minds will have been expanded by the addition to their attainments of Euclid, algebra, and one modern language?

THE PHARMACEUTICAL INVASION of LONDON next week will not seriously strain the resources of the metropolis, but I hope it will bring together a goodly number of the chemists of the United Kingdom. A couple from every county would make a fair meeting, but this metropolitan Conference must break the attendance record, or it will have to be regarded as a failure. The principal difficulty is likely to be that of attracting the pharmacists of Middlesex and Surrey. It has always been difficult to stir these gentlemen, and, as a rule, only the chance of a scrimmage has brought them together in anything like numbers. The scientific programme scarcely promises this attraction. It will be difficult to quarrel over the viscosity of essential oils, or the drugs of India or Jamaica. The papers, indeed, though all of them are strictly pharmaceutical, do not seem to present many openings for debate. That, however, remains to be seen. One characteristic, which is not new, is worth noting. This is that the majority of the authors of the papers so far announced are not genuine pharmacists. Twenty-three names were given in the list published last week, and of these only ten appear on the pharmaceutical registers of Great Britain or Ireland. Information of pharmaceutical value should interest the Conference from whatever source it may come; but it will be gratifying if the best items are produced from our own body.

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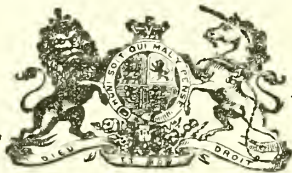
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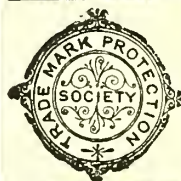
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Editorial Comments.

Critics Criticised.

DR. JOHN ATTFIELD as a polemist is never more delightful than when he is on the defensive. The greater the host that surrounds him, the keener seems he to be for the fray; and the way that he disposes of the small fry by rapping their heads together, and avoids the pitfalls and difficulties provided by stronger antagonists, is as amusing as it is clever. He has a magnificent innings this week in "A Digest

of Researches and Criticisms" on the British Pharmacopœia of 1893, which he has prepared for the General Medical Council, and which has been printed for the Council by Messrs. Spottiswoode & Co., New Street Square, E.C., as a large octavo pamphlet of 123 pages. It is in a blood-red cover, and it deals with the criticisms and researches relating to British Pharmacopœia monographs published between April 9 and December 31, 1898. It is to Dr. Attfield that we are indebted for an advance-copy of the "Digest," and we presume that it will be obtainable by purchase from the Medical Council's printers; for although chemists and druggists generally will not find it a needful addition to their library, those who make any pretence to criticise the Pharmacopœia or suggest emendations in it should certainly have the means of consulting the "Digest." It is racy reading, frequently witty, consistently sarcastic, and good-tempered throughout. Those characteristics indicate that the "Digest" is polemical, and whether that or a plain unvarnished record would be the better for the purpose of assisting in the revision of the Pharmacopœia is a question worth consideration by the Pharmacopœia revisers. The plain way would serve the purpose and be more concise. The polemical rather provokes attack, and may suggest to the sensitive that criticism is not altogether acceptable. Again, there seems a disposition on the part of the Reporter to impress the fact upon pharmaceutical critics that "the medical point of view prevails in a Pharmacopœia." We are met by this fence now and then in the "Digest." Considering the work done by pharmacists in regard to pharmacopœial revision, and that substantially the whole of the criticisms and researches dealt with in the "Digest" have been published in journals of pharmacy, while scarcely any material towards the improvement of the British Pharmacopœia of 1893 has proceeded from the medical ranks, the reminder of the ultimate medical veto is not pleasant.

Since the report consists of a digest of matters already published, and much of it (apparently the greater proportion) has appeared in this journal, it is unnecessary to refer in detail to the points enumerated. Were we to attempt to gratify the critics mentioned in the "Digest" by repeating the Reporter's observations, many pages would be filled. We, therefore, select from the "Digest" suggestions for further work, and note some of the most important replies to criticisms:—

Acacia Gummi.—Pharmacists should try to improve the physical and chemical definitions of gum for official purposes so as to include any suitable gum independent of botanical source.

Acetum Ipecacuanhe.—Is this required? What purpose does the acetic acid serve?

Acidum Aceticum Glaciale.—Replying to J. C. Umney's criticism as to the melting-point (15.5°C .) giving trouble with the New Zealand Customs authorities, the Reporter suggests that they should take 14.6°C . to 14.7°C . as their melting-point. Two possible strengths are provided by the B.P. tests, 98.9 and 99.2 per cent.

Acidum Boricum.—The indirect magnesia or lime method of estimation is suggested.

Acidum Citricum.—"As David Howard asserts that sufficient iron is now present to render the lead test unreliable, the Medical Council has ordered the word 'nearly' to be read before the word 'neutralised' in line 21 of page 10 of the Pharmacopœia." A most important alteration, which we presume may be regarded as official from this date; so that the best commercial citric and tartaric acids, hitherto not regarded as B.P., may be sold as such.

Acidum Gallicum.—More experience wanted with Oliver's test: to 1 gr. add 90 minims of ammonia solution. A deep salmon-red solution results. Add 10 minims of strong nitric acid, shake, and set aside. Gallic acid gives no precipitate, tannic acid does.

Acidum Nitro-hydrochloricum Dilutum.—At what rate do the acids in presence of water attack each other day by day? (Compare THE CHEMISTS' AND DRUGGISTS' DIARY, 1899, page 494.)

Adeps.—Research for better test for cottonseed oil suggested; also for lard oil.

Aloes.—Consequent on our DIARY remarks it is suggested that "further information is needed from the districts of collection" of Zanzibar hepatic aloes and true Socotrine aloes.

Anisi Fructus.—Further notes on ash-yield wanted.

Aqua.—Should medicated waters be made from the spices or the oils? Experiment with both, observing how they keep, and determining which is the best comminutor for the oils—calcium phosphate, cotton, kolin, tale, glass, pumice, &c.

Aqua Sambuci.—Do unsalted elder-flowers keep good for twelve months?

Asafetida.—Will authorities, after making the necessary experiments, publish their views as to whether tears or block gum-resin is the better, and as to the insoluble content? (Compare Dieterich, C. & D., liii., 130.)

Atropine Sulphas.—What should be the melting-point of a satisfactory commercial salt?

Balsama Peruvianum et Tolutanum.—The whole subject needs revision.

Belladonna Folia.—Ash varies in the siftings from the same specimen (C. & D., liii., 553). So also with digitalis and senna. Results obtained with British drugs should be published.

Bismuthi Oxidum.—Which is the best way of estimating—(1) as sulphide, (2) oxide, or (3) by reduction with formaldehyde solution? "An opportunity for research."

Bismuthi Subnitras.—The Reporter suggests that a skilled worker should obtain samples from British makers, dry them, ascertain the loss on heating to redness, and recommend limits for the residual oxide.

Borax.—Report on the strength of commercial samples.

Caffeina.—Mr. David Howard is asked to explain what he means by "the last trace of hydration," in C. & D., lii., 675. Hoseason is also asked to suggest a volumetric process for this alkaloid and its citrate.

Cambogia.—Publish percentages of ash.

Cantharis.—Make and try the official preparations in which definite amounts of cantharin are used. For formulae apply to Dr. Attfield.

Cascarilla.—Different observers should incinerate different parcels [*sic*] in different years, and publish the results.

Catechu.—After commenting upon a CHEMISTS' AND DRUGGISTS' DIARY comment the Reporter asks, "Could not pharmacology resolve the irritating pharmaceutical difficulties attending the official recognition of catechus and kinos by investigating the medicinal action of mimotannic acid and catechin?" Also, pharmacists, please report on the ash-yield of catechu (gambier).

Cimicifuge rhizoma needs chemical and pharmacological investigation.

Copaiba.—There is still room for researches, by skilled pharmacists, on the chemical and physical methods for testing copaiba from various sources.

Extractum Ergotæ Liquidum.—Wanted, obstetrical experience as to the relative value of the extract and liquid extract, so as to show which process of preparation is the better.

Extractum Glycyrrhizæ Liquidum.—Moore might report on the 1898 extracts as he did upon those of 1885.

Extractum Nucis Vomice Liquidum.—The official process of assay is admitted to be tedious and complicated. Workers should attempt its simplification.

Extractum Physostigmatis.—Further chemical, pharmacological, and pharmaceutical researches on the active principle of the Calabar bean are much needed.

Ferri Suphas Exsiccatus.—Will Barclay assay commercial samples, and Lunan test home-made specimens, or someone else do both?

Guaiaci Resina.—What do pharmacists think of Dieterich's recommendations (C. & D., liii., 130)?

Hamamelis and its Preparations.—The conjoined pharmacological, therapeutical, chemical, and pharmaceutical investigation to remove obscurities concerning hamamelis and its preparations is suggested.

Hydrargyri Oleas.—Further pharmaceutical research on this is needed.

Infusum Gentianæ Compositum.—Pharmacists must settle whether this must be made with fresh or dried orange-peel.

Kino.—In regard to this drug similar remarks to those under Catechu apply.

Liquor Bismuthi et Ammonii Citratis.—There is still room for improvement in the mode of preparing this.

Liquor Calumbæ Concentratus.—As to Bird's alleged uncertainty regarding the relative strengths of the liquid expressed and that unexpressed, data are required.

Liquor Hydrogenii Peroxidi.—A simpler method of assay is invited.

Liquores Concentrati.—Liquor gentianæ was amongst those submitted to the committee. Probably pharmaceutical research will sooner or later render possible the official recognition of this liquor and others.

Morphine Hydrochloridum.—The behaviour of this to strong sulphuric acid is a subject for investigation.

Pruni Virginianæ Cortex.—How would the name serotina cortex do for this?

Pulveres.—Commenting upon our suggestion that every vegetable drug exhibited in powder form should have a percentage of

ash fixed for it, the Reporter says: "Different observers should not hesitate to publish accounts of their work."

Quinine Hydrochloridum Acidum.—Clearly there is room for some further chemico pharmaceutical investigation of this official substance.

Solubilities.—The solubility, in ordinary pharmaceutical menstrua, of nearly every soluble substance mentioned in the Pharmacopœia needs renewed research from the point of view of prescriber and dispenser. Solubility at standard temperature, 60° F. (15.5° C.), should be ascertained. Solubility at the easily remembered equivalent F. and C. temperatures of 50° (F.) and 10° (C) should be ascertained; and perhaps at 70° F. (21.1° C.).

Strophanthi Semina.—An improved process for the extract might be found.

Syrupus Cascara Aromaticus.—A better formula is wanted; so also for syrupus codeinae.

Tincture.—The Reporter gives a table of sp. grs. as determined by Attfield, Umney, and Barclay, with Barclay's standards of solids, and discusses very fully the question of including such factors in the Pharmacopœia.

Unguentum Hydrargyri.—Experiments on the killing of mercury are desirable.

Vinum Quinine.—Observations on the cloudiness which forms in this might be made by pharmacists.

There is much in the "Digest" which is deserving of notice, and which will undoubtedly call forth criticism, but these suggestions incorporate the novel feature of Dr. Attfield's work on the Pharmacopœia, and in this week of great pressure on our space they will suffice to show that even from the strictly official point of view the B.P. is not regarded as perfect. Of course this journal does not bulk largely in the "Digest" merely in the way of commendation, but there is no space left to note the criticisms, supposing that were necessary.

Congressional Chemistry.

So far as chemistry and its allied industries are concerned, this week marks the beginning of a month of activity the like of which has rarely been recorded. On Tuesday the International Congress of Pure Chemistry opened in Paris, when that great savant M. Berthelot was to have presided, but he was prevented by illness from taking any active part in the proceedings, so that the meeting was robbed of one of its chief attractions. International amity was also exhibited in London on Wednesday, when at the annual meeting of the Society of Chemical Industry in the Royal Institution, Albemarle Street, Professor Chandler, of New York, directed affairs. Not hitherto has this Society had so successful a meeting. It was in marked contrast, for example, to the one held in Nottingham two years ago, when about two score of members assembled to pass the records of the year. The theatre in the Royal Institution was filled, the ground-floor audience overflowing into the first gallery and into the top gallery, although the day was a sweltering one. One of the charms of the meeting was to hear the cultured American voice of the President conducting the meeting in New-England fashion; the way he put the motions, asking those who agreed to say "Aye" and those who did not to say "Nay," recalled the old associations which knit together the two Anglo-Saxon nations. The Presidential address, if printed in full, would fill an ordinary number of THE CHEMIST AND DRUGGIST. Professor Chandler contented himself with going over it page by page and telling the meeting things that did not exist in the address—at least, in such racy language. Briefly, it was a record of the growth of chemical and technical education in the United States, and of the present position of chemical industry in that country. When Professor Chandler began the study of chemistry there were only four scientific schools in the country; now schools of chemistry are so numerous the number cannot be stated precisely. Nearly every college and school has its chemical laboratory, while there are sixty-four colleges of

agriculture and mechanical arts in the various States, and the study of engineering is so well encouraged that last year nearly ten thousand students were pursuing professional courses in schools devoted to that department. The details which Professor Chandler gave regarding the efforts made in the United States to further technical education, formed an exceedingly useful landmark. From this he passed on to speak about chemical research, and naturally had most to say respecting the work of the United States Agricultural Department, which, taking its cue from Sir John Lawes and Dr. Joseph Gilbert, has been instrumental in advancing American farming, and has conserved the fertility of the soil, and increased its productiveness to an extent which outsiders have difficulty in realising. Few people are aware that not this country but the United States is the chief producer of coal and iron in the world. Even in regard to the production of chemicals it is rapidly coming to the front, by supplying its own needs for industrial purposes. The fact that in the Niagara Falls enormous power is latent which can be directed to the electrolytic production of many chemical substances, shows that we must reckon that in the near future certain substances will be manufactured at the various power-works there in quantities more than sufficient for internal use, and then we shall have to face American competition in products which hitherto we have supplied the world with. Perhaps there was no more interesting part of the address than that devoted to the description of the production of aluminium by Charles M. Hall's process, an essentially electrolytic and modern one. Professor Chandler also spoke of the utility of water-gas, which is more used in the United States than coal-gas, and is rapidly making headway in this country. After his address he had several little things to do which were done in a most graceful manner, especially the presentation to Dr. Schunck of the Society's gold medal. This was, as Mr. David Howard later remarked, a recognition of pure chemical research, for it is remarkable that practically the whole of Dr. Schunck's investigations on natural colouring matters were entirely unconnected with industrial processes, although they have proved to be finger-posts to technical chemists in their search for synthetic dyes. On Saturday the Society migrates to Paris, ostensibly to take part in the congress of technical chemistry. Simultaneously, British pharmacists will assemble in London, and their meeting will scarcely have finished before the International Congress of Pharmacy will be convened in Paris, so that for the next three weeks, at least, there will be continued an association of chemists which will result, we hope, in some prominent benefit being conferred upon the fraternity as well as upon the community of individuals and nations.

A Seventh Centenary.

PEOPLE of all nations are fond of celebrating centenaries, and the higher up we get in the intellectual scale the more do we find the custom. This month, for instance the Royal College of Surgeons has such a celebration on, and the Fellows and members are to make much of it. Paris has a splendid opportunity this year, of which, apparently, no notice is to be taken, in the seventh centenary of the world-famed University of that city, which was founded in 1200 by Philippe Auguste. The fact that the Faculties of the various French towns have, by a recent law, been grouped into universities would, during the Exhibition year, be a particularly suitable occasion for fitting the glories of this, one of the oldest universities. In days when Oxford and Cambridge were insignificant the Paris University was an *alma mater* to the learned men of Europe, and was much frequented by

English scholars. "Here," says Green in his "Short History of the English People," "English scholars gathered in thousands round the chairs of William of Champeaux or Alebar; the English took their place as one of the 'nations' of the French University; John of Salisbury became famous as one of the Parisian teachers; Becket wandered to Paris from his school at Merton." The University was then, as it has ever been, located in the "Latin quarter," which name arose from the fact that while the rest of Paris spoke French, Latin was the current tongue of the scholastic quarter, as many of the scholars were naturally entirely ignorant of French. Some may remember the model of a class in the old Sorbonne which the Paris students got up for one of their Mid-Lent carnivals a year or two ago. It was accurate enough in many details—the students in plain doublet and hose, with a leathern girdle about their loins, seated on the straw-covered floor under the old Gothic arches, and with the professor at his desk. Pope Urban V. decreed in 1333 that the scholar, should thus be seated on the ground, and have no benches or seats, "to keep youth from the sin of pride." Corporal punishment was first administered by the masters themselves, but every trade becomes specialised in time, and in the sixteenth century each college had its official and professional castigator. The King often made a present of birches to the University. Thus we find Louis XI. in 1464 deciding that a certain sum should be yearly devoted to the purchase of supple and strong birches. Theology predominated in the Paris University curriculum until the Revolution. The University now consists of Faculties of Medicine (nearly 4,000 students), Law (1,250), Literature (1,500), Science (1,100), and Protestant Theology (50), also the Superior School of Pharmacy, a Faculty in all but name where 1,430 students are inscribed on the books, although the whole of France shows only 3,335 pharmacy students. The Catholic Theology students do not nowadays officially form a Faculty of the University. The Sorbonne and Faculties have been rebuilt, and are essentially modern, even the undue centralisation and administration, thanks to which foreign students (especially perhaps English and American) now tend to drift to Germany rather than to France.

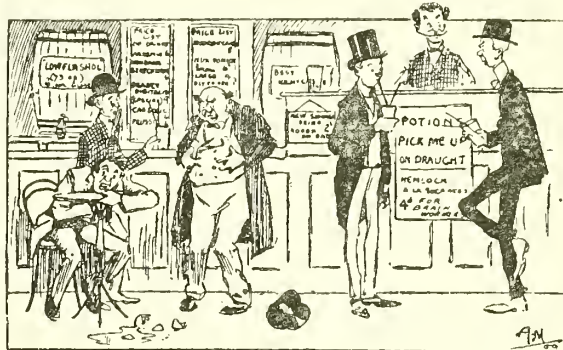
THE ARSENICAL SODIUM PHOSPHATE.

The decision of the Marylebone Magistrate in the cases under the Sale of Food and Drugs Act for the sale of effervescent phosphate of soda¹ containing arsenic, and its contamination, is chiefly surprising on account of the large fines which were imposed, but these are probably commensurate with the importance attached to the cases by the skilled witnesses and others engaged in endeavouring to convince the Magistrate that the contamination was unheard of before if not unavoidable. It would be advantageous to adduce the moral from the cases that "every chemist should test his chemicals," but as it happens there is no official provision for the detection of arsenic in this particular chemical, the moral would be rather far-fetched. It is peculiar that the British Pharmacopœia should not give a test for arsenic, especially as the United States Pharmacopœia provides a limit test for this contamination. No doubt the next edition of the Pharmacopœia will provide a similar limitation.

THE NEWSPAPERS UPON THE CASE.

The daily newspapers have written a good deal of nonsense in regard to the cases. It does not appear to have occurred to them that the evidence showed that arseniated sodium phosphate has been practically the only kind used for some

years back, and the sudden discovery of the fact has certainly not increased the chance of fatalities, while there has not been any cases of injury recorded through the use of the phosphate until this time. Amongst the various newspaper-cuttings which we have received, the one reproduced in this paragraph most graphically exhibits the newspaper-man's



opinion of the matter. It is a picture of the Café Arsenique which is to be in the twentieth century successor to the present-day pharmacy. It speaks for itself, but the evening paper which produced it entitles the thing "Cooling-drinks, which may be taken as pick-me-ups and prove to be knock-me-downs."

"KILL-KILL."

A correspondent in Birmingham bought from a traveller one gross of 3*l*. "Kill-kill" for which he paid in cash, and was promised a fine window-display of dummy rats, &c. The show was to be put in next day, and our correspondent emptied his window, and kept it so for several days, but no rats came along. The firm was then written to, and the letter has been returned marked "Not known." The billhead states that the proprietors are "Haneball Charrington, Analytical Manufacturing Company, London, New York. London Works and Offices: Albert Embankment, Vauxhall." There is no such name or company in the London Directory. We have recently had several complaints about transactions of this character, promises made by such travellers not being fulfilled. While printing this warning we may also remind retailers that it is not good business to believe everything that unknown persons say to them, and the promised value for the money should be obtained before the money is paid over.

AN OTTO-OF-ROSE SLANDER.

Progress, a Constantinople paper, published a letter a few weeks ago from a Kesanlik correspondent regarding the importation of oil of geranium by certain firms, naming Bageroff of Sopot, and Shipkoff and Seralimoff of Kesanlik, in this connection, and boldly asserting that Messrs. Shipkoff had brought 500 okes (roughly about 22,000 oz.) of geranium oil for importation into Bulgaria, but the Bulgarian Government had seized half of it. We have made inquiries regarding the matter, and find that no such seizure as is referred to has been made by the Bulgarian Government. We also observe that the *Bulgarische Handelzeitung* and the Government official paper ("Narodni Prava") publish a letter from Messrs. Shipkoff & Co. which *Progress* declined to insert without payment, and the *Bulgarische Handelzeitung* prefaces the letter with a complimentary note on Messrs. Shipkoff's integrity, and stating that a great injustice has been done. Messrs. Shipkoff say that "the whole information is from beginning to end a lying slander, invented by malicious people for the purpose of injuring our reputation abroad."

Outings.

On Saturday, July 14, the employees of Messrs. Arthur H. Cox & Co., pill-manufacturers, Brighton, held their annual picnic at Goring, a little village near Worthing. The morning was spent in carrying out a programme of sports and cricket, and at 1.30 luncheon was taken at the Bull Hotel, at which the healths of the principals, Mr. Alderman Arthur H. Cox, Mr. A. H. Cox, jun., and Mr. E. C. Cox, were heartily toasted. Later the party visited places of interest in the neighbourhood, and again assembled for 5 o'clock tea, returning to Brighton in the evening after a most enjoyable outing.

In delightful weather the members of Plymouth, Devonport, Stonehouse and District Chemists' Association had their annual outing on July 11. Travelling from Plymouth to Totnes by train, the Association was joined by a contingent from the Exeter Chemists' Association, the party then numbering 100. At Totnes conveyances were in waiting, and the party drove to the beautiful castle and grounds at Berry Pomeroy, where Mr. Kinton Bond, B.A., B.Sc., gave a description and brief history of the building. Berry Church was visited, as also were Totnes Castle and Church, on the return of the party later in the day. After high tea at the Castle Hotel a number of toasts were honoured. Mr. J. Davy Turney submitted "The health of the President (Mr. F. Maitland, J.P.)," saying that the President had taken an active interest in the work of the Association from its commencement, and his genuine worth was known to every member. Under Mr. Maitland's guidance the Association had considered Clause 2 of the Companies Bill. They had spoken with no uncertain voice on the subject, and their position had been a dignified and consistent one. The President, in acknowledging the compliment, spoke of his deep interest in the Association, and said he hoped to be able to render further service. He was very glad to welcome the Exeter contingent, and also Mr. C. J. Park, their late President, on his return from his honeymoon. Mr. C. J. Park proposed "The Visitors," and hoped that was the beginning of a closer union between the two Associations. Mr. Milton (President of the Exeter Association), and Mr. Hinton Lake, responded. The Outing Committee responsible for the excellent arrangements consisted of Messrs. J. Barge, A. D. Breeze, J. Cocks, F. W. Hunt, C. J. Park, J. W. B. Swainson, J. D. Turney, C. T. Weary, W. H. Woods, and G. Breeze, J.P. (Hon. Secretary).

Business Changes.

Notices are inserted free in this section if properly authenticated.

MR. H. W. SARJEANT, chemist and druggist, has purchased the business of Mr. W. Wilkinson, of Whittlesea.

MESSRS. OLIVER & CO. (LIMITED), chemists, are about to open new premises at 487 High Road, Tottenham, N.

MR. C. E. KING, pharmaceutical chemist, has purchased the business of Messrs. Sarjeant & Howling, at Watford.

MR. J. TOD, chemist and druggist, has bought over the business at Whitechurch, recently belonging to Mr. W. T. Bartle.

MR. A. B. CALVERT, chemist and druggist, has taken over the business lately carried on by Mr. A. S. Glover, at Waterloo Street, Hull.

SMITH'S ADVERTISING AGENCY has been removed from Nos. 132 and 82 Fleet Street to more convenient premises at 100 Fleet Street, E.C.

MR. W. T. BARTLE, chemist and druggist, late of Whitechurch, Hants, has bought the business lately carried on by Mr. C. Crook, Mirfield, Yorks.

MR. S. B. WHITE, chemist and druggist, has acquired the business of Mr. W. Price, pharmaceutical chemist, at Bromsgrove Street, Birmingham.

MR. S. W. BOWNESS, chemist and druggist, late of Ripponden, Halifax, has purchased the business at Luddenden Foot, lately carried on by Mr. J. R. Comyns.

MR. A. BARRITT (of Cannes), English and foreign chemist, has taken premises at 164 Charing Cross Road, W.C., which he will open as a high-class pharmacy as soon as the necessary alterations are completed.

MR. A. STORRS WALKER, pharmaceutical chemist, has taken over the business at 187 Arundel Street, Portsmouth, lately carried on by Mr. H. C. Haggis. Mr. Walker intends to develop the photographic side of the business.

THE old-established business of Mr. Matthew Burton, 27 Stricklandgate, Kendal, has been purchased by Mr. Richard Hope, pharmaceutical chemist, who has been senior assistant with Mr. Burton during the last five years.

MESSRS. A. LACKMANN & CO., Aussig, Bohemia, intimate that they have taken over the chemical-factory formerly carried on by L. Erzinger, Aussig, for the production of cyanide preparations, acetic and oxalic acids, &c. Messrs. Brummerstaedt & Lüdler are the London agents.

MR. S. H. BENSON, advertising-agent, having transferred his window-display department to a separate syndicate, will remove the newspaper portion of his business from 103 Fleet Street to 1 Tudor Street, E.C., on July 23. This is preparatory to the removal of the whole business to larger premises in a few months' time.

MR. W. C. PLUMER, chemist, of 63 Lamb's Conduit Street, W.C., has taken over the business formerly carried on by Messrs. Dart & Co., at 14 Southampton Street, Strand, W.C. Messrs. Godfrey & Cooke were at one time proprietors of this business, which was established as long ago as 1680, and has the distinction of being one of the oldest chemist's businesses in London.

Schleich's Skin-remedies.

THE following are prescriptions by Dr. C. L. Schleich, of Berlin, the well-known German dermatologist, and are used by him in his clinic:—

CERAL-CRÈME.

Cerate-paste ...	10 grammes
Vaseline (yellow) ...	10 "
Oxide of zinc ...	10 "
Oil of rose ...	5 drops
Solution of eosin ...	2 "

Mix and make an ointment.

CERAL-VASELINE.

Mix equal parts of vaseline and wax-paste and heat; then cool as quickly as possible, when both substances will return to their natural consistence, unless intimate mixture is obtained by rubbing. The additions (zinc oxide, &c.) should be incorporated with dexterity.

FLUID NUTRITIVE GELATIN WITH FORMALIN.

Dissolve 10 grammes of nutritive gelatin by immersion in a beaker of warm water, pour the gelatin into a vessel, and add 1 or 2 drops of formalin.

GLUTEN-CERATE CREAM.

Gluten-cerate ...	90 grammes
Make into a solution by heat and add—	
Oxide of zinc ...	9 grammes
Glycerin ...	3 drops
Eosin ...	2 "
Oil of rose ...	2 "

Make a paste.

MARBLE-POWDER SOAP.

Dissolve 750 grammes of freshly-prepared pure hard soap of an amber-yellow colour (or a mixture of sapo. domest. infrust. flav. with soft soap in the proportion of 6 parts to 1) by cutting in thin slices and heating with water. Boil together until a solution is formed, then add 150 grammes of steral and 150 grammes wax-paste, stirring well all the time. Then let 7 kilos. of finely-sifted and very white marble-powder be so added that the marble-particles are uniformly incorporated in straight lines. Constant stirring and the uniform distribution of the marble are essential. Afterwards boil for from one and a half to two hours, adding 300 grammes of water until a syrupy (but not too thick) consistence is obtained.

PEPTONE-PASTE.

Dried peptone ...	15 grammes
Starch ...	15 "
Oxide of zinc ...	15 "
Finely-powdered gum arabic ...	30 "
Sterilised distilled water ...	30 "
Lysol ...	10 drops
Oil of citronella ...	10 "

Make a peptonated paste.

(To be continued.)

Legal Reports.

High Court Cases.

SECRET COMMISSIONS.

THE Lords Justices of the Court of Appeal gave their judgment last week in the appeal of Messrs. Hovenden & Sons against the judgment of Mr. Justice Grantham in their case against Messrs. Millhoff, cigarette-manufacturers, who paid the plaintiffs' buyers commission to the extent of 700%. The plaintiffs wished to recover that commission, which Mr. Justice Grantham refused. The Lords Justices reversed that decision, Mr. Justice Smith remarking that although the prices charged to the plaintiffs were not excessive for the goods supplied, something like 2½ per cent. was regularly paid to the plaintiffs' buyers on the amount of each transaction. He had asked the counsel for the defendants what this money had been paid for, and the answer was to "keep the buyers in good temper, and with the object of avoiding friction." That appeared to be one wholly inadequate to set aside the presumption that it had been paid as a bribe, and if it had been, then the plaintiffs were clearly entitled to have it back. Yet the jury had said that all the plaintiffs were entitled to recover was one farthing. Such a verdict appeared to him to be senseless on the face of it.

Lord Justice Romer, in the course of his judgment, gave the following interesting definition of a bribe in the eyes of the law. He said:—

If a gift be made to a confidential agent with the view of inducing the agent to act in favour of the donor in relation to transactions between the donor and the agent's principal, and that gift is secret as between the donor and the agent—that is to say, without the knowledge and consent of the principal—then the gift is a bribe in the view of the law. If a bribe be once established to the Court's satisfaction, then certain rules apply. Amongst them the following are now established, and, in my opinion, rightly established, in the interests of morality with the view of discouraging the practice of bribery. First, the Court will not inquire into the donor's motive in giving the bribe, nor allow evidence to be gone into as to the motive. Secondly, the Court will presume, in favour of the principal and as against the briber and the agent bribed, that the agent was influenced by the bribe; and this presumption is irrebuttable. Thirdly, if the agent be a confidential buyer of goods for his principal from the briber, the Court will assume as against the briber that the true price of the goods as between him and the purchaser must be taken to be less than the price paid to, or charged by, the vendor by, at any rate, the amount or value of the bribe. If the purchaser alleges loss or damage beyond this he must prove it.

Judgment was entered for the plaintiffs for 400%, and costs; the 400% was less than they were entitled to, but they took that amount to save further litigation.

ADVERTISING "LIVER-SEEDS."

MR. JUSTICE LAWRENCE had, last Saturday, to settle a dispute between T. B. Browne (Limited), the advertising-contractors, and Mr. Evanovitch, trading as James Holland & Co., the matter in dispute being a sum of 1,828*l.* 4*s.* 9*d.*, for advertising "Dr. Sand's Liver-seeds" in the months of January, February, and March of this year. The total cost of the advertising in these months was 2,728*l.* 4*s.* 9*d.*, but payments on account had been made, leaving a balance of 1,828*l.* The point raised by the defendants was that the amount was not due at the date of issue of the writ, because there was to have been a three-months' credit account. Evidence was given by Mr. James Wann, managing director of the plaintiff company, and by Mr. Harold Browne, who saw Mr. Evanovitch and took the original order. For the defence it was contended that three months' credit was necessary in a business of this kind. The advertisements, which were very expensive, induced chemists in the country to buy stocks of these medicines, but they required credit, and when they paid the defendants were able to pay. The plaintiffs had examined the defendants' books and were, therefore, fully aware of the position of affairs. His contention was that the February account was not due until June 1, and that the plaintiffs stopping the advertisements in May prevented the money coming in that would have paid for that account. The result of the breach of contract was very serious to the

defendants, and, in fact, almost ruinous. In consequence the defendants counterclaimed for the loss they had sustained in the loss of business. In June, when the February account was payable, the defendants were left with some tons of liver-seeds on their hands, and no purchasers. These seeds sold for 9*d.* a bottle, but they cost very little; he did not care to say how much.

Mr. Evanovitch was then called, and said he had carried on the business of "Dr. Sand's Liver-seeds" for the last three years, and it had been very successful. When he agreed with Mr. Harold Browne to advertise he insisted upon three months' credit, as he had not sufficient capital to carry on without. By the stoppage of the advertisements in May he lost a sale of some 500 gross of bottles in June, and he estimated the profit upon that at 1,000*l.* In cross-examination, witness said the cost of the seeds was 25*s.* a gross, or something like 3*d.* per bottle.

Corroborative evidence having been given,

Mr. Justice Lawrence said he was unable to find anything to support the contention of a three-months' credit contract, and there was no complaint made regarding the accounts being sent in, as alleged, before they were due.

Mr. Shearman said that if his Lordship held that view then the counterclaim failed, and he could not resist further.

Judgment was then given for the amount claimed, including the 833*l.* 13*s.* 1*d.* for which judgment had been signed, with costs.

VALENTINE MEAT-JUICE.

IN the Court of Appeal on July 17, before the Master of the Rolls and Lords Justices Rigby and Collins, the case of Valentine's Meat-juice Company v. the Valentine Extract Company (Limited) was heard on appeal by the plaintiffs from an order of Mr. Justice Stirling, who had declined to grant an injunction restraining the defendants from carrying on business as manufacturers or vendors of any preparation of extract of meat or meat-juice under any name or title of which the word "Valentine" formed part, and restraining Charles Richard Valentine from carrying on any such business without clearly distinguishing it from that of the plaintiffs.

Mr. Moulton, Q.C., appeared for the appellants, and in the course of his argument their Lordships put various questions such as, "Can anybody make 'Liebig' now? Is it a known process?" to which Mr. Moulton replied that the process had been disclosed. He also quoted from Mr. C. R. Valentine's circular a paragraph stating:—

Mr. C. R. Valentine, the inventor and patentee, has for some years been identified with the manufacture and handling of extract of meat, and after experiments covering a considerable period, has been successful in putting extract of meat into a globular form.

This, he said, made people come to the conclusion that the extract-of-meat capsules were associated with the plaintiffs, and the evidence clearly supported that view.

The Master of the Rolls: I should think on the face of it the circular would deceive.

Mr. Moulton: Oh, yes, there is plenty of evidence upon the point.

Mr. Swinfen Eady, Q.C., followed on the same side.

Mr. Upjohn, Q.C., for the respondents, argued that there was really no competition between the plaintiffs' and the defendants' articles, and the case was nothing but an attempt on the part of the American Valentine Company to obtain a monopoly of the name of Valentine. He thought he could satisfy the court that there was no dressing-up, no untruth, and no fraudulent garnishing of the word "Valentine." The court had to decide whether or not a man named Valentine could engage in the extract-of-meat business, and if the court decided in the negative it followed that the plaintiffs could exclude everybody of the same name as themselves from this field, and he ventured to think that was not the law. The case is proceeding.

CHEMICAL BROKERAGE.

IN the Queen's Bench Division of the High Court of Justice on Monday, before Mr. Justice Bigham, sitting to try commercial causes, the case of A. Hunter & Co., chemical brokers, London, v. Poynter, Son & Macdonald, chemical manufacturers, Glasgow, came on for hearing. Mr. Rufus Isaacs, Q.C., and Mr. Leck were counsel for the

plaintiffs, and Mr. Bray, Q.C., and Mr. Hollams for the defendants.

Mr. Isaacs said the claim was for a sum of 115*l.* 9*s.* 8*d.* for commission of 1 per cent. due to the plaintiffs on account of an introduction by them to the defendants of the Peruvian Corporation (Limited), and on a contract which was brought about by their instrumentality. There would, he thought, be very little dispute as to the facts. The contract was for four cargoes of guano, and the point between them was that one cargo, on which the plaintiffs claimed commission, never arrived. The vessel carrying it was lost on the Peruvian coast, and defendants said that they were not liable on that cargo to pay the plaintiffs the brokerage which they claimed. The plaintiffs were agents for the Peruvian Guano Corporation, and in that particular matter they acted as brokers between the parties on a contract dated December 30, 1899.

His Lordship: Do you consent, Mr. Hollams, that if the cargo had arrived the plaintiffs would have been entitled to the commission?

Mr. Hollams said he did. The contract was for 1 per cent. commission, and it provided that should any of the vessels be lost or the cargo jettisoned, that part of the contract which referred to such portions should be void. He submitted that the contract was between the buyer and the seller, and not between the purchaser and the broker.

His Lordship said the question was whether that 1 per cent. was payable when the amount of cargo which arrived could be ascertained.

Mr. Isaacs said the amount was ascertained, but the arrival price was never ascertained. The defendants had insured, and got the benefit just the same as if the cargo had arrived.

His Lordship: That is prejudice. They did not insure it for you.

Mr. Rufus Isaacs said the point was this—that his clients had introduced two parties who had made a bargain. Through the plaintiffs the defendants got the contract, and even if the whole of the four cargoes had been lost each one was insured, and they would have got the benefit of it. There would have been no hardship on them at all, and it would have been most reasonable and right that the plaintiffs should have the commission, because the defendants would have still been getting the benefit of the transaction.

His Lordship: Even if they did get the benefit of the insurance it has nothing to do with this case at all.

Mr. Isaacs: But they got their profit on the cargo because they insured it, and I say they have got the benefit of my clients' work.

Mr. Bray pointed out that the plaintiffs were agents for the Peruvian Corporation, and there was no payment due from the defendants whatever until the arrival of the vessel. Even then only three-fourths of the commission was to be paid, the remainder to stand over until the cargo had been tested. Supposing half of a cargo had been jettisoned, surely the commission was not due on the whole cargo, but only on what arrived. In the case of the ship in question nothing had arrived, and there was no final invoice, and consequently no liability.

Mr. G. C. Lomer, a member of the plaintiffs firm, was called by Mr. Rufus Isaacs. He said they were chemical brokers and merchants. He had had considerable experience of the trade. He spoke to the contract with the defendants at 1 per cent. commission, and said his firm had a similar commission from the Peruvian Corporation. It was part of the duty of his firm to collect money for the Peruvian Corporation. If a vessel was lost, as in the present case, they had always been paid their commission.

Cross-examined, witness said after the loss of the vessel in question, another was chartered, but he denied that the latter was substituted in the agreement as to commission.

His Lordship at this point said that if it was part of Mr. Bray's defence that a new vessel was substituted for the one that was lost, as regarded the plaintiffs' claim for commission he must amend.

Mr. Greenhough, chemical merchant, Mr. Winkfield, phosphate merchant and broker, and Mr. Henry Dennis Yates, of the Peruvian Corporation, gave evidence as to the custom of paying commission on cargoes which were lost in transit, and the further hearing was adjourned, in order that Mr. Bray might amend his defence and give the plaintiffs inspection of documents.

On Wednesday Mr. Winkfield was again called, and produced forms of contract in cases where he had been allowed brokerage on cargoes which were in vessels that were lost. He gave specific instances.

Mr. Bray produced documents showing the quantities of guano brought to London in the three vessels apart from the one which was lost. The quantities, it appeared, amounted to 7,000 tons delivered under the contract, whilst the amount arranged for was only about 6,000 tons. The plaintiffs, he stated, had been paid their brokerage on the whole of the 7,000 tons delivered.

Correspondence was then gone into with the object of showing whether or not the terms of the contract were modified. For the defendants it was submitted that the correspondence showed that the three vessels were to be taken in substitution for the fourth.

Mr. Isaacs, on the other hand, contended that though the quantity delivered was greater than the maximum, the plaintiffs were still entitled to brokerage on the cargo which was lost.

His Lordship: Suppose the contract was for four vessels, and they were all lost, and then other four vessels were substituted, would the plaintiffs still say they were entitled to brokerage on the cargoes which were sunk as well as those delivered?

Mr. Isaacs: That is the position I take up.

His Lordship: Supposing there were a larger number of vessels sunk, and a larger number substituted, would the plaintiffs, you say, be entitled to commission on the sunk cargoes?

Mr. Isaacs: Yes.

His Lordship: And so on *ad infinitum*?

Mr. Isaacs: Yes.

His Lordship: That sounds very odd.

Mr. Isaacs: I think I could give an explanation which would not make it appear so odd.

His Lordship: I do not think you could. Continuing, his Lordship said it seemed to him that the plaintiffs had got a larger commission than they would have had under the original contract.

Mr. Isaacs said the plaintiffs had sold more stuff in order to entitle them to the commission?

His Lordship: But you have got commission on all you have delivered.

For the defence, Mr. Thompson Aikman, produce-broker, East India Avenue, and Mr. Anthony (of Messrs. Barth & Son), chemical-broker, were called, and said it was not their custom to charge commission on lost cargoes.

Mr. Isaacs having summed up on behalf of the plaintiffs, his Lordship said he would reserve his judgment on the point and put it into writing.

ROYAL BAKING-POWDER.

THE Royal Baking-powder Company have appealed to the House of Lords against the decision of the Lower Courts in their action against Wright, Crossley & Co., of Liverpool, and after the addresses of counsel their Lordships on Tuesday reserved judgment.

SACCHARIN CORPORATION *v.* CHEMICAL AND DRUGS COMPANY (LIMITED).

In the Court of Appeal on July 18, before the Master of the Rolls and Lords Justices Rigby and Collins, Mr. Fletcher Moulton, Q.C., moved on behalf of the plaintiffs for leave to appeal from an order of Mr. Justice Cozens-Hardy, who had declined to direct the defendants in the action disclosing the names of customers to whom they had sold saccharin. Mr. Moulton said that they were in a position to prove that a large quantity of saccharin sold by the defendants was an infringement of the plaintiffs' patents.

The Master of the Rolls: Why do you want the names of the customers?

Mr. Moulton said there were two or three reasons, and one was for the purpose of warning them.

The Master of the Rolls: I can see the information will be useful to you, but the question is whether you are entitled to have it in this action.

Mr. Moulton said the matter was one of very great importance to the plaintiffs.

The Master of the Rolls: What did Mr. Justice Cozens-Hardy say when you asked him for discovery?

Mr. Moulton: The learned Judge's ground was that if he granted discovery the plaintiffs would be in a position to bring actions against the customers, but that was no reason why they should not have discovery.

The Master of the Rolls: What is the real discovery you ask for?

Mr. Moulton: We ask for the names and addresses of the customers and the quantity of saccharin sold to these various people.

The Master of the Rolls: Well, we do not in the least express an opinion, but we will give you leave to appeal.

Sale of Food and Drugs Act.

VINEGAR.

At North London Police Court on July 11, the Hackney Vestry prosecuted three shopkeepers of the neighbourhood for selling as malt-vinegar an article which Mr. Leo Taylor, the public analyst, said was acetic acid diluted and coloured, and not made of malt. Mr. Haden Corser (the Magistrate) said this was a clear evasion of the Food and Drugs Act; but he would like to know, after the evidence of the public analyst, if there was anything dangerous to human life in this sample now before the Court? Mr. Leo Taylor replied that there was nothing deleterious in it. Mr. Haden Corser said that if malt-vinegar was asked for it must be supplied, or an explanation given. In each case he imposed a fine of 2*l.* and 12*s.* 6*d.* costs. In a fourth case counsel had been engaged to defend, and he had with him the public analyst from Norwich to give rebutting evidence; but as this case was likely to occupy more time than the Court had to spare, it was adjourned for a month.

MUSTARD.

At the Kensington Petty Sessions on July 17, David & Evans (Limited), grocers and oilmen, 193 Clarendon Road, Notting Hill, were summoned for having sold mustard containing 25 per cent. of wheat-flour.

It was stated for the defence that the manager of the shop had inadvertently emptied a tin of condiment into the mustard drawer.

Mr. Bird (Magistrate): Supposing it were pure mustard, could you eat it?—Defendant: Yes.

Mr. Bird: I thought it had to be "broken down," so to speak?—Witness: On the continent it is taken dry, like salt, whereas here it is mixed with water. You cannot eat pure mustard; it is too bitter.

Mr. Stephens (for the Vestry): Colman's sell pure mustard in 1*l.* tins?—Witness: Yes.

Mr. Stephens: The mustard may have been for a poultice. Mr. Haswell (Magistrate): Then they should go to a chemist.

A nominal penalty of 20*s.* and costs was imposed.

MILK OF SULPHUR.

At Kensington on July 17, Bartlett Judd, 155 Earl's Court Road, Kensington, was summoned for selling milk of sulphur which contained 100 per cent. of sublimed sulphur. Defendant said his young man sold it. He himself was doubtful of it, and did not know the difference from ground sulphur. Defendant said he sold it in ignorance of what it was. He had the impression that milk of sulphur was ground sulphur.

A fine of 5*s.* and costs was imposed.

MESSRS. BUCKMASTER & SONS, 163 Portobello Road, appeared to answer a similar summons.

Defendants said the article was sent out as sulphur—milk of sulphur they never kept. In the course of his evidence, the inspector said when served defendants' man said he could not keep 2-oz. weights as they were stolen, and he used a 2-oz. block of blacklead instead.

A fine of 10*s.*, and 10*s.* 6*d.* costs, was imposed.

CAMPHORATED OIL.

At Brentford on July 12, William Willis, grocer, Southall, was summoned for selling camphorated oil 23 per cent. deficient in camphor. For the defence it was stated that defendant was supplied by a man who went about Middlesex selling that class of drug in small bottles, and an adjournment was granted in order that an attempt might be made to trace the vendor and bring him before the Court.

SPIRIT OF NITROUS ETHER.

At Burnley on July 13, Daniel Oxley, grocer, was fined 10*s.* and costs for selling spirit of nitrous ether not of the proper strength.

County Court Cases.

PAY IN A MONTH.

In the Westminster County Court on July 17, Judge Lumley Smith, Q. C., had before him the case of Brown v. Willis, in which the plaintiff applied for the committal of the defendant, who was described as a chemist, of Lower Road, Rotherhithe, for non-payment of a judgment-debt in respect of shop-fittings supplied. It was stated that since the judgment had been obtained the defendant had sold his shop, and was now living in good style at Pimlico. The debtor did not appear, and his Honour made an order for payment in a month, subject to committal for twelve days in default.

CYCLE ACCIDENT SEQUEL.

In the Westminster County Court on July 17 the case of Pinckney v. Hardiman came up, in which the plaintiff, a chemist employed at the Army and Navy Stores, Victoria Street, Westminster, sought to enforce payment of a judgment-debt of 9*l.* due from the defendant, a jobmaster, carrying on business at Strutton Ground. Some weeks ago plaintiff brought an action against the defendant for injury done to a bicycle, and the judgment of the Court was that after having it repaired he was to hand it over to the plaintiff with a sum of 2*l.* 2*s.* for its detention, and also to pay the costs of the action. The bicycle had been handed over, but the defendant had not paid the 2*l.* 2*s.* damages, or the costs, which amounted in all to 9*l.* Defendant said he was willing to pay 2*l.* 2*s.* in a week, and the balance by monthly instalments of 1*l.* each, and Judge Lumley Smith thought the offer a fair one, and made an order accordingly.

A RIGHT-OF-WAY DISPUTE.

At the Wolverhampton County Court on July 16, Mr. Herbert Bliss Hill, solicitor, Wolverhampton, brought an action against Messrs. Boots (Limited), chemists, Queen Street, Wolverhampton, to recover damages for trespass, and also to obtain an injunction to restrain defendants from improperly using a certain yard and passage belonging to plaintiff, and which communicated with the rear of the defendants' premises. Plaintiff became the owner of property at 23 King Street, subject to a right of way through his side passage and back yard to the property in Queen Street occupied by the defendants. This right of way, it was contended, was only a right of foot passage through the yard between, and plaintiff complained that defendants had large bales of goods addressed to their Queen Street premises delivered from the railway vans in King Street, and conveyed thence on trolleys along plaintiff's passage and through his back yard. The annoyance complained of was the blocking of the light to plaintiff's office windows by the standing of railway vans in front of them whilst unloading boxes of goods, and the noise caused by trundling the goods along the passage alongside his offices and through the yard at the back. The defendants also were in the habit of unpacking some of their cases in the back yard, and thereby causing a good deal of litter and dirt. They had, however, ceased to do this since he complained to them some months ago, and they had also given up more recently the practice of conveying goods down the passage on trucks or trolleys. After hearing the defence the Deputy-Judge (Mr. Norris Foster) said he was satisfied from the evidence that the annoyance suffered by Mr. Hill up to the time the defendants ceased to convey goods through his yard on trolleys, and also the unpacking of the goods in the yard, was of a trivial character, and would be fairly met by judgment for 40*s.* and costs as damages. As defendants had now ceased the practices objected to there was no need to grant the injunction asked for. The defendants had a right of passage through the yard, and a right also to convey what goods were delivered to them from the railway vans in King Street through the yard to their back premises by carrying them, but not to convey them on trucks. On this latter point, therefore, the judgment was for the defendants. Costs were allowed on the judgment for 40*s.* only.

Bankruptcies and Failures.

Re CHARLES MARK PALMER COCKING, trading as a Chemist at High Street, Strool.

The first meeting of creditors and public examination of this debtor will be held on July 23 at Rochester. According to the statement of affairs the gross liabilities are given at 1,474*l*. 15*s*. 1*d*., the whole of which is expected to rank for dividend. Debtor gives as the causes of failure insufficient capital and competition in trade. The stock-in-trade is valued at 300*l*. All the furniture in the house (with the exception of a few articles valued at 8*l*. 10*s*.) is claimed by the debtor's aunt. There are a few book-debts (about 12*l*. or 13*l*.), and taking into consideration the surplus to contra in respect of the estimated value of securities, the deficiency is put at 825*l*. 11*s*. 11*d*. Debtor commenced business in 1896, at these premises, where he had previously been an assistant to the late Mr. James Stevens. The business was purchased by the debtor from Mr. Stevens for 900*l*., the money having been advanced by his aunt. The business has been carried on under the name of the old firm of "James Stevens." The debt of 900*l*. which the debtor had of his aunt is still outstanding, as also a further sum of 100*l*. borrowed from her. Debtor states that he became aware of his insolvency some three years since, and continued to trade hoping that things would improve. The Official Receiver (taking into consideration that the business is a very old-established concern) is carrying on the same until the first meeting of creditors.

Re GEORGE GROVE BLACKWELL, Leadenhall House, Leadenhall Street, E.C., Chemical-manufacturer, &c.

At the London Bankruptcy Court on July 13, the first meeting of creditors was held under a receiving order made against this debtor. The debtor states that fifteen or sixteen years ago he entered the offices of his father at Liverpool, and afterwards became a partner in the business, which was carried on at Liverpool in the style of George G. Blackwell, Sons & Co., mineral and chemical manufacturers and brokers. In 1895 a London office was opened at 4 St. Mary Axe, and the firm continued until November, 1896, when the debtor retired, his father taking over the assets and liabilities. The debtor then commenced business on his own account with about 250*l*. borrowed capital at Leadenhall Street, London, trading as Blackwell & Co., mineral merchants, and traded as such down to the date of the receiving order in June last. He attributes his insolvency to losses incurred in respect of contracts. The unsecured liabilities are estimated approximately at 4,500*l*. to 5,000*l*. The assets have not yet been valued. The matter was left in the hands of the Official Receiver to be wound up in the usual course in bankruptcy.

Re WHITE & STACEY (LIMITED), Berners Street, W. and Willesden Green, Manufacturers of and Dealers in Druggists' Sundries.

The affairs of this company came before Mr. Registrar Hood on July 13 at the London Bankruptcy Court. Mr. H. Brougham, Official Receiver, reported that the principal person to be examined was Mr. W. H. Prendergast. Every effort had been made to serve that gentleman with the summons to attend, but, although he had engaged an agency to endeavour to serve the notice, up to the present time the efforts had not been successful. There was no doubt but that Mr. Prendergast was keeping out of the way, and the result would be that eventually an application would have to be made for his arrest. Under all the circumstances he asked for the public examination to be adjourned *sine die*, with liberty for him to take whatever further steps might be deemed necessary. His Honour made an order on those terms, and suggested that the Official Receiver should at once apply for an order for substituted service of the proceedings, to be followed later by the application for a warrant for Mr. Prendergast's arrest.

Re HARRY COGILL, carrying on business at 54 London Road, Southend-on-Sea, Mineral-water Manufacturer.

The adjourned meeting of creditors was held on July 10 at Chelmsford. The statement of affairs filed shows gross liabilities 5,943*l*. 11*s*. 11*d*., and assets leaving a considerable surplus. The first meeting was adjourned, as it was thought probable that the business, which was a profitable one, might be sold as a going concern. In the meantime the Official Receiver was authorised to carry on the business with the debtor as manager, and an advisory committee was also appointed. The Official Receiver now stated that the negotiations for the sale of the business had been continued, and there was a definite offer for purchase at a sum which would in all probability give the creditors 20*s*. in the pound. After considerable discussion it was resolved that the matter should remain in the hands of the Official Receiver with

the committee already appointed, and resolutions were also passed accepting the terms and conditions of the proposed purchase and sale, and authorising the Official Receiver to carry them into effect.

Deed of Arrangement.

Murphy, Thomas, 41 Railway Street, Nelson, physician and surgeon. Trustee, Samuel Heath, Albert Hall, Nelson, accountant. Secured creditors, 142*l*. Dated July 5; filed July 12. Liabilities unsecured, 1,676*l*.; estimated net assets, 40*l*.

	£	s.	d.
Corbyn, Stacey & Co., London ...	...	13	0
Ferris & Co., Bristol ...	...	13	0
Hartley, J. C. (per, &c.), Burnley ...	...	11	0
Murphy, E. & P., Nelson ...	...	1,500	0
Bankers' claims ...	...	222	0

Gazette.

Partnerships Dissolved.

Edwards, William, and **Edwards, William, jun.**, trading as William Edwards & Son, 157 Queen Victoria Street, London, medicine-vendors; as far as regards W. Edwards, sen.

Parker, G. D., and **Hall, J. S.**, under the style of Parker & Hall, Manchester, general medical practitioners.

Robson, W. S., **Coverdale, G.**, and **Brooke, B.**, under the style of Coverdale & Brooke, Scarborough, chemists and druggists.

Wise, C. H., and **Davis, C. S.**, under the style of Wise & Davis, Walthamstow, physicians and surgeons, &c.

The Bankruptcy Acts, 1883 and 1890.

RECEIVING ORDERS.

Berdoo & Leigh, Oxford Street, W., manufacturing chemists.

Millward, Frederick, Penarth, chemist and druggist.

ADJUDICATIONS.

Blackwell, jun., **George Grove** (in the receiving order described as George Grove Blackwell) (trading as Blackwell & Co.), Leadenhall House, Leadenhall Street, E.C., mineral merchant.

Millward, Frederick, Penarth, chemist and druggist.

Saville, William Toulson, Leeds, drysalter.

Smith, Charles Hollway, Worksop, Nottinghamshire, manufacturing chemist.

ORDER MADE ON APPLICATION FOR DISCHARGE.

Jones, Samuel Cromwell, Merthyr Tydfil, physician and surgeon—discharge granted upon bankrupt consenting to judgment for 100*l*.

New Companies & Company News.

INCORPORATED SOCIETY OF TRAINED MASSEUSES.—Registered on July 12, with 250 members, each liable for one guinea. Objects as indicated by the title. The management is vested in a council.

MOLL, PALMER & Co. (LIMITED).—Capital 5,000*l*., in 1*l*. shares. Objects: To acquire and carry on the business of varnish, japan, colour, and oil manufacturers, chemists, &c., now carried on by G. M. O. Rogner, at 19 High Street, Wapping, E., as "Moll, Palmer & Co." G. M. O. Rogner is sole managing director. Remuneration 500*l*., increasing by annual increments of 100*l*. to 1,000*l*. per annum.

B. J. EDWARDS & Co. (LIMITED).—Capital 20,000*l*., in 1*l*. shares. Objects: To acquire the business carried on by B. J. Edwards & Co., at The Grove, Hackney, and to carry on the business of manufacturers of and dealers in photographic materials and apparatus, photographers, printers, paper-makers, chemists, &c. The number of directors is not to be less than three nor more than five; the first are B. J. Edwards and R. P. Stone. Remuneration as fixed by the company.

MINA CHEMICAL AND DYE WORKS COMPANY (LIMITED).—Capital 10,000*l*., in 1*l*. shares. Objects: To adopt an agreement with A. Rosenberg, and to carry on the business of chemists, druggists,

drysalts, essential-oil manufacturers, &c. The first subscribers (each with one share) are:—D. Solomon, 81 Alexandra Road, N.W., leather-manufacturer; L. Solomon, manufacturers' agent; B. Solomon, leather-manufacturer; Mrs. D. Rosenberg; S. J. Solomon, artist; I. Solomon, leather-manufacturer; and E. D. Lowy, stockbroker. Registered without articles of association.

GARCIA PHARMACY (LIMITED).—Capital 1,000*l.*, in 1*l.* shares. Objects: To acquire the business carried on at 37 Fore Street, Totnes, by C. R. Garcia, as W. E. Curtis, and to carry on the business of chemists, druggists, mineral-water manufacturers, and merchants, &c. The first subscribers are:—C. R. Garcia, mineral-water manufacturer; Mrs. E. Garcia, Miss G. Garcia, Miss V. Garcia, all of Cromwell House, 34 Carlton Road, Southampton; V. Garcia, soda-water manufacturer, Mrs. A. M. Garcia, both of St. Aubyns, Holdenhurst Road, Bournemouth; and H. Colbourn, 12 Bedford Place, Southampton, soda-water manufacturer. C. R. Garcia is the governing director. Remuneration as fixed by the company.

CHEMICAL SPECIALITIES COMPANY (LIMITED).—Capital 500*l.*, in 2*s.* shares. Objects: To carry on the business of chemists, druggists, drysalts, oil and colour men, dealers in proprietary articles, manufacturers of and dealers in electrical, chemical, surgical, photographic, and scientific apparatus and materials, &c. The subscribers are:—J. Freedman, 5 Church Row, Aldgate, E.C., box-maker; P. E. Lumsden, 60 Old Broad Street, E.C., clerk; J. J. de Laesmaeken, 341 Goswell Road, E.C., millinery-manufacturer; C. G. Bowerman, 181 Queen Victoria Street, E.C., advertising agent; P. D. Hopwood, 36 Granville Gardens, W., clerk; V. Rayner, 6 Bruce Grove, Watford, Herts, haberdasher; and Anna Rayner, 6 Bruce Grove, Watford, Herts, shirt-maker. Registered without articles of association.

W. P. PIPE (LIMITED).—Capital 500*l.*, in 1*l.* shares. Objects: To acquire the business carried on at Liverpool as "W. P. Pipe," and to carry on the business of chemists and druggists in all its branches. The first subscribers (each with one share) are:—W. P. Pipe, 99 Falkner Street, Liverpool, chemist; J. Gordon, 70 Upper Parliament Street, Liverpool, physician and surgeon; R. Gordon, 70 Upper Parliament Street, Liverpool, dispenser; Agnes S. Pipe, 89 Wordsworth Street, Liverpool; A. H. Taylor, 31 Berkley Street, Liverpool, commission agent; Alice A. Cross and W. Cross, both of 37 Park Place, Liverpool, florists. Registered without articles of association. Registered office, 99 Falkner Street, Liverpool.

W. B. FORDHAM & SONS (LIMITED).—The directors of this company have declared an interim dividend at the rate of 6 per cent. per annum, free of income-tax, for the six months ended June 30.

SCOTTISH CYANIDE COMPANY (LIMITED).—The fourth annual general meeting of this company was held in Edinburgh on July 12, Mr. Thomas Aitken presiding. The Chairman, moving the adoption of the report, stated that the experiments, which were interrupted owing to want of funds, had now been resumed. The indebtedness of the company at the end of the financial year had been cleared off by the issue of 6 per cent. debentures, amounting to 49,724*l.*; while additional funds for carrying on the work had been provided by the issue of 2,015 preference shares of 10*l.* each, all of which had been taken up by present holders of ordinary or deferred shares. The report was unanimously adopted. The retiring director (Mr. T. Aitken), who has been chairman of the company since its formation, does not seek re-election.

APOLLINARIS AND JOHANNIS (LIMITED).—The shareholders of this company met at the Holborn Restaurant on July 12, Mr. Frederick Gordon presiding. An abstract of the annual report was printed in last week's *C. & D.* The Chairman now stated that during the past year the sales of the company's waters had exceeded those in the previous year by 3,000,000 bottles, and for the first three months of the current financial year the sales were larger by 500,000 bottles than they were for the same period of last year. Coupled with the increase in the sales the profits had naturally considerably improved. The increase in the sales of Apenta water for the past year over those of the previous year was equivalent to 23 per cent., and this year, again, the sales of the water showed a further advance. He asked the shareholders to look on the reserve fund as partly invested in the Apenta-water business. He believed that the money used for that purpose would come back to the company threefold or fourfold in a few years. Mr. Julius C. Prince (Vice-President and Managing Director) seconded the motion for the adoption of the report, which was eventually

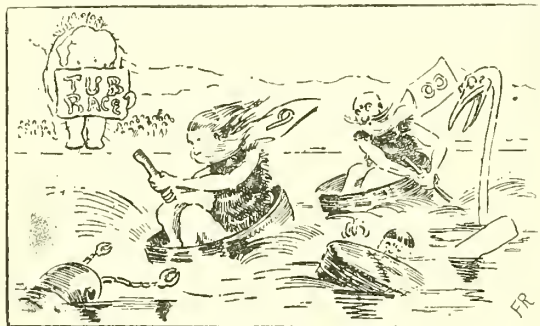
adopted. Replying to a shareholder, the Chairman stated that the sales of Johannis water had not increased, but were large.

PEARSE'S LINIMENT (PRELIMINARY) SYNDICATE (LIM.).—Under a winding-up order recently made against this company, which carried on business at High Street, Borough, the statutory meetings of the creditors and shareholders were held on July 19, at the offices of the Board of Trade, Carey Street, Lincoln's Inn Fields, W.C. Mr. A. S. Cully, Assistant Receiver, reported that the company was formed in July, 1899, with a capital of 6,000*l.*, to acquire the rights to manufacture a liniment for the cure of rheumatism and kindred complaints. It was promoted by Mr. C. L. Baker, who had acquired the rights in the liniment from the patentee, Mr. Pearse, for a sum of 50*l.* down, 250*l.* within three months, and 3 per cent. of the capital in any company that might be formed to acquire the patent. Mr. Baker sold his rights to the company for 3,000*l.*, divided into 1,200*l.* cash and 1,800*l.* fully-paid shares. Two prospectuses were issued, and about 1,092*l.* was subscribed; 600*l.* of that money was paid to Mr. Baker, and a charge of 600*l.* was given over the patent and secret process to secure to the vendor the payment of the remaining 600*l.* cash consideration. The vendor distributed blocks of his shares among certain of the directors and the secretary. That was a matter which would have to receive attention at the hands of the liquidator, and it might happen that the directors would have to make good to the company the value of the shares they received from the vendor. Very little business was apparently done by the company, and the unsecured liabilities were only trifling, and the chief assets were unpaid calls. The Official Receiver was left in charge of the liquidation.

A. J. WHITE (LIMITED).—The meeting of the shareholders of this company was held in London on July 16, the Hon. T. L. Woodruff in the chair. The Chairman explained that he came from the United States last year as the representative of holders of 400,000 shares, and since then had purchased more. The object of his coming was to try to check the mismanagement of the company. He found that 157,215*l.* had been paid in dividends from April 1, 1897, to March 31, 1900, but the company had only earned 152,768*l.* in that time. The profits of the past year amounted to 44,833*l.*, and after paying the preference dividend there was left 14,833*l.* for distribution. The first year's profits were overstated, credit being taken for unexhausted advertising, but the second year the profits were understated. All had now been made square. The Chairman then proceeded to refer to the legal difficulties which had resulted upon the payment of dividends which had not been earned, also to the retirement a year ago of Mr. Packard, the managing director, and expressed the hope that the ensuing year would show better results now that they had got into smooth water. An amendment to the motion for the adoption of the report was moved, the object of the mover being not to release the late managing director, but to prosecute him for falsification of accounts; but after the reply of the Chairman the amendment was withdrawn. In the course of his reply, the Chairman, referring to allegations of misrepresentation in floating the company, said he had the personal assurance of Mr. Attree, the auditor, that not only were the profits of the business for the four years ending April 1, 1897, 80,000*l.* odd per annum, as represented in the prospectus, but that as a matter of fact they were nearly 110,000*l.* per annum, the net profit for the four years being 428,000*l.* But Mr. A. J. White had a venture at home in a business of a similar character, which got into litigation, with the result that it cost Mr. White 30,000*l.* per annum for the four years. After making this provision the net profits were as stated in the prospectus. It was then resolved to authorise the directors to compromise the claims of the company against Alf Cooke, Milton Bartholomew, Charles Birchall, Benjamin Barlow, Nixon, Lyman Brown, H. K. Packard, Raymond S. White (the legal personal representative of the late Mr. A. J. White), and the legal personal representatives of the late Thomas Platt, in respect of dividends paid out of capital during the first two financial years of the company's trading, in consideration of the payment of the sums of 5,780*l.* 11*s.* 8*d.* and 1,500*l.* to the company. A dividend of 2*½* per cent. on the ordinary shares for the past year was declared.

By the Banks of the Darent.

A DAY'S outing with Messrs. Burroughs, Wellcome & Co.'s employés is becoming (in contemplation) a serious undertaking for the more outsider. Last Saturday morning a special train steamed out of Cannon Street station at half-past 10, and it returned fully twelve hours later. The intermediate time was filled, every minute of it (saving that on the rails), on the grounds of the Wellcome Club and Institute at Dartford. At a quarter to 12 two boys, who had survived previous "heats," plunged into the Darent to determine who would swim forty yards the quicker, and J. Reynolds proved to be the better man. Whether he is related or not to the pharmaceutical cartoonist who supplied the illustrations to the green guide-book time alone can tell; but this same Reynolds, or his prototype, is depicted in the prehistoric tub-race with his face on a level with the tub, and an all-round athlete named Gordon Hamilton is, in position, the lineal descendant of No. 9 on the picture. The aquatic



PRE-HISTORIC SPORTS.—No. 1. THE TUB RACE

sports helped to occupy the time and delay the inner craving until 12.45, when Messrs. Spiers & Pond had a luncheon for 900 set out in a marquee on the paddock by the Darent. Then it was that we began to see who were there besides the Wellcome Club and Institute people. On Mr. Wellcome's right were Lady Stanley—known in the artistic world as Dorothy Tennant—Admiral Sir Cyprian Bridge, K.C.B., Dr. T. J. Barnardo, Mr. W. H. Nichols, the Vicar of Dartford, Dr. Dowson, and several ladies. On the left were Sir Henry M. Stanley, G.C.B., M.P., Mr. Raymond Blathwaite, Dr. F. B. Power, Dr. Jowett, Dr. Schryver, Dr. Pinkus, and more ladies. Mr. R. Clay Sudlow, the general manager, presided at the table in front of Mr. Wellcome, and kept journalists amused while they lunched. It was a magnificent sight to see the 900 busy people—the outcome of the tiny tabloid—discuss the ample meal. At the end of it the Vicar said Grace, and the Queen was toasted. Then Sir H. M. Stanley gave "The Firm." The white-haired explorer speaks in the best St. Stephen's manner. His speech was quite interesting. He recalled his troubles with medicine-chests when he went to find Livingstone, and on his second expedition. The medicines were in 6-oz. square bottles. They were liquids chiefly: the corks shrank, the medicines stank, and a smell of the chest was the last resort of the fevered man. Between his second and third expeditions Mr. Stanley (as he then was) met Messrs. Burroughs and Wellcome, and this is what he said of them last Saturday, as chronicled by a Dartford journalist:—

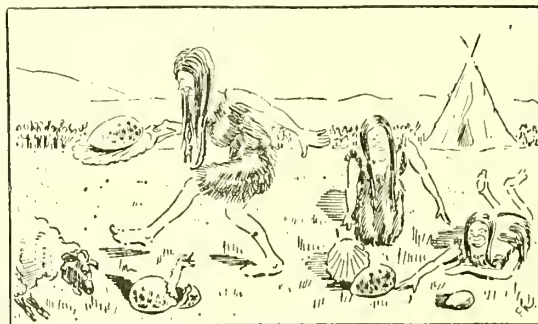
After he had got inside their works he found the consummation of his secret wish, and that all which African explorers wanted was supplied in excellent style. On his third expedition he took with him, in neat bottles, well stoppered and well arranged in a model chest, all the medicines which were necessary for the use of blacks and of whites, and a good medicine chest was the best thing they could take into Africa. The ways of Providence were very mysterious, and it was only when the task was done and the work accomplished that they were able to see fully the number and the nature of the instruments employed. They had heard a great deal lately of the development of Africa, and the opening up of the dark places of the world to the light of civilisation, and in looking back at the instruments, he was able to see a number of philanthropists and explorers, and men of all grades and classes, both black and white, but most of them must give place to Messrs. Burroughs & Wellcome, who had enabled people to endure tropical

life, had enabled philanthropists to continue their work with greater prospect of success, and had enabled missionaries to keep their places in the rough paths of Africa.

The rest was in the nature of personal compliment, and Mr. Wellcome's reply was brief and sympathetic: it merged into the toast of "The Employés—home and abroad." Many of them have been working overtime recently, although their number has increased from 800 to 900 during the year. The feature of the day was Mr. Wellcome's presentation to the general manager of a Waltham gold watch, with his monogram, R. C. S., inscribed in diamonds, on the completion of twenty-one years' service with the firm. This he offered to Mr. Sudlow as a little expression of his affection and regard, and, referring to the initials, he said "the remembrance of our happy association is even a brighter lustre, in my mind, than the diamonds." The applause almost made the company forget the toast, and when Mr. Sudlow rose to reply the enthusiasm rose with him.

The next toast was "The Research Laboratories," which the Editor of the *C. & D.* proposed, and Dr. F. B. Power (for the chemical) and Dr. Dowson (for the physiological) laboratories replied to. Then "The Visitors" were toasted, and to that Sir Cyprian Bridge and Dr. Barnardo responded, both taking points from Mr. Sudlow. This ended the formal toasting but not the speaking, for Mr. J. Collett Smith, the assistant general manager, on behalf of the employés of the firm at home and abroad, presented Mr. Sudlow with a silver loving-cup. Every one of the employés had given something to the testimonial fund, so the cup was big and beautiful. Mr. Sudlow was touched by the gift, and spoke with emotion, but the humour would come to the surface. He quietly remarked at the psychological moment that "to avoid any misunderstanding, and from motives of temperance, he made one stipulation in accepting the gift, and that was that when he pledged them all in the cup—which he hoped to do very often—they must not expect him on each of those occasions to drain it—(pause and applause)—more than twice." [Capacity of the cup, 8 litres.—EDITOR.]

The company now found their way to the cricket-field, where there was a grand stand. The 3rd Royal West Kent Regiment's band and the band of the training-ship were there with their instruments, and the Kents played in a bevy of fair maidens to the tune of "A Hundred Pipers." They were to dance round the Maypole. After they had done that the sports were resumed, one of the first events being that depicted here, but the Leeds artist drew on his imagination.



PRE-HISTORIC SPORTS.—No. 2. THE EGG AND SPOON RACE

The ladies who dropped eggs last Saturday had their hair done up in Grecian knots. "Lanoline," the lamb which came from Carlisle, was, however, somewhere about. All the events on the programme were well contested, and some of them were amusing. They occupied the time until nearly 6 o'clock, when the marquee was filled again by hungry people. After that there were a gymkhana, a musical cycle ride, and flag-drill by thirty or so Dartford young ladies—very pretty was the flag-drill. At 8.30 Miss Hilda and Master Arthur Williams, the children of the late Mr. W. Lloyd Williams, presented Lady Stanley with a basket of flowers. The little chap was in white sailor ducks, and he took off his cap and bowed to Lady Stanley with quite a cavalier air. Lady Stanley presented the prizes. Then we wandered through the grounds, which were twinkling with Heaven's lamps and Chinese lanterns, towards the station. And so home, not a drop of rain all day.

Australasian News.

Chiefly from "The Chemist and Druggist of Australasia,"
June 1, 1900; 6d. per copy, post free.

RABBIT-EXTIRPATION.—The Government of Victoria has accepted the tender of Messrs. Roche, Tompsett & Co. for poisons for rabbit-extirpation for the next twelve months. The following are the contract-prices, which include delivery in Melbourne and packages:—Arsenic 23s. per cwt., carbon bisulphide 5*d.* per lb., phosphorus 3s. 6*d.* per lb., strychnine (powdered and coloured) 3s. 6*d.* per oz. The use of cyanide-water for poisoning rabbits, mentioned in a recent number of the *C. & D.*, has not been found of use in districts where there is a fairly good water-supply.

N.Z. PHARMACY BOARD.—Thirty-five regulations with four schedules of the Pharmacy Board of New Zealand have been drafted and submitted to the Government. They deal with the holding of the examinations and such-like subjects. One regulation requires that a registered chemist who shall leave the town in which his business is situated for a longer period than a month must leave his business in charge of a duly-enrolled manager. Another regulation is that the Society's headquarters can be shifted if so determined by vote of the majority of the members of the Society. The Governor-in-Council has to sanction the regulations yet.

EARLY CLOSING.—The decision in the case of Bonarius v. Bellemey and Newman in the Supreme Court of N.S.W., under the Early-closing Act, held that pharmacists may keep their shop-doors open and shops lighted up after 9 P.M. on any day. The Minister for Labour and Industry then announced that he would apply to Parliament to get the law to fix the closing-time at 9 P.M. This has caused the N.S.W. Registered Pharmacists' Society to ask its members to state if they would "consent to having their shop-door compulsorily closed by law, and lights put out at 9 P.M." Out of 140 replies, 79 said "No," and 61 "Yes." The Council are to wait on the Premier, and urge the necessity of placing assistants in the same position as other workers. The Pharmaceutical Society of N.S.W. as soon as the legal decision was made known, made arrangements to wait on the Minister in charge of the Bill to amend the Early-closing Act. To obtain facts to lay before the Minister a circular was sent to all the members, and out of 443 replies 386 were in favour of closing at 9 P.M. on five days, and 11 P.M. on one day each week, and 57 against.

THE NEW ZEALAND PHARMACY ACT.—An important interpretation affecting colonial Pharmacy Acts was given in the N.Z. Court of Appeal on May 1, in the case of Kenworthy v. the Pharmacy Board of New Zealand. Kenworthy had applied for registration under sub-section 2 of section 27 of the Pharmacy Act of 1898, which provides that any person of the age of 21 years, or upwards, should, upon application and payment of the fees, be entitled to be registered as a pharmaceutical chemist without examination—

who at any time after the first day of January, 1881, and before the coming into operation of this Act, has for not less than two years kept either as owner or manager open shop as a dispensing or homoeopathic chemist, or who has for not less than two years been solely employed as dispensing chemist by any legally-qualified medical practitioner.

Kenworthy had been in business in Perth, Western Australia. The Pharmacy Board of New Zealand refused to accept his application on the ground that the qualification should be read as limited to New Zealand. Sub-section 1 of the same section specified certain qualifications which must have been acquired in New Zealand. But the words "in New Zealand" had been omitted from the other sub-sections and it has been generally understood that this enlarged the meaning of the Act, so that qualifications obtained anywhere would come within its provisions. The full Court unanimously held that the general expression of sub-section 2, must be read to mean that the qualifications specified in it must be acquired in New Zealand.

CHILIAN IODINE.—The iodine combination existing between the several producers of saltpetre in Chili has been extended another three years.

Colonial and Foreign News.

OPIUM-PRODUCTION IN TURKEY.—With a view to increasing the production of opium, the Turkish Government has decided to exempt from tithe for one year the produce of all new plantations of the poppy.

LIME-JUICE CORDIAL CONDEMNED.—The National Analytical Laboratory attached to the custom-house at Rio de Janeiro has found salicylic acid in Feltoe & Smith's lime-juice cordial, and has condemned it as noxious to health.

THE SWISS ANTIPYRIN CASE.—The Bindschedler case came before the Court of Appeal, Basle, on July 9, and resulted in the previous judgment of one-and-a-half year's imprisonment for Bindschedler being confirmed and his immediate arrest ordered. Since the trial in February (which was reported in *C. & D.*, February 17) he has been on bail. The compensation due to the Höchst colour-works will be decided by the civil court.

CAMPHOR-TREES IN CALIFORNIA.—According to the *New York Commercial* the camphor-tree has been grown in California for many years as a shade and ornamental tree, but no effort has been made to produce camphor commercially. At the State University some years ago a small sample of camphor was made from the twigs and foliage, and was exhibited at the fairs. The trees are widely distributed over the State of California, both along the coast and in the interior, and everywhere are much admired for their thrifty growth and natural beauty. There are trees, probably nearly forty years of age, sixty feet in height, and three feet in diameter at the base.

IN BULGARIA.—This year's annual meeting of Bulgarian pharmacists, to be held on August 28 in Plevna, will be of some importance to the principality, and will also decide the future of foreigners, especially Austrians, who were the first to open businesses in that country. The main questions to be considered are the foundation of a central society in Sofia; the enactment of one pharmacy for every 6,000 inhabitants; the doing away with all unlawful dispensaries and taking away such pharmacies as are owned by foreigners, it being required that manager and leaseholder must be Bulgarian subjects; the reduction of the tariff is also to be discussed, and the question of how to diminish the importation of specialties and mineral waters into the principality, also how to prevent grocers from selling medicines.

ASAFETIDA IMPROVING IN QUALITY.—The chemist of the Government Laboratory at New York reports that during 1899 it was noticed that the importations of asafetida were apparently deficient in the percentage of resin required by the Treasury regulations. Accordingly a large number of samples were examined. The results showed that out of 164 samples tested, only 6 contained the requisite amount of resin—50 per cent. The low-testing grades were not permitted to be imported. This year another similar examination was made, 150 samples being tested; of these 71 were of the required purity, while 37 more contained over 40 per cent. of resin, as against but 2 in the previous year. The quality of the asafetida imported into the United States has therefore greatly improved as the result of this action.

ADVERTISING "PATENTS" IN SWITZERLAND.—A conference has been held at Zurich of delegates of every Swiss canton to draft a Bill to regulate the advertising of pharmaceutical specialties and patent medicines. The following are the most important resolutions. Each canton's Sanitary Council shall decide what is a specialty or a patent medicine. The sale and advertising of such will only be permitted on authorisation of the Council, which will not be given if the article is dangerous to the public health, or its composition nonsensical, or if the advertisement or label shows it to be a swindle, if the illnesses require medical attendance, or if the price is considerably more than the value of the article. The Cantonal Sanitary Council is empowered to demand a sample and to analyse it upon payment. The maker must disclose the composition of the article and selling-price; if not its sale will be prohibited. The Council will publish a list of such as are prohibited. Such permission is not to be used as an advertisement. Swiss pharmacists think such a law would do good.

South African News.

(From our own Correspondent.)

MR. W. FICK, the retiring Hon. Secretary of the Pharmaceutical Society of Cape Colony, will, it is understood, receive a presentation from the members of the Society, as a mark of their appreciation of his services.

DR. R. S. ANTHONY, medical superintendent of the American Sanitarium, Claremont, Cape Colony, recently made a trip to the South African Republic to assist the Boer wounded. He did not make a long stay, however, and is now in England.

LORD ROBERTS is considering the advisability of permitting a few business "Randites" to return to Johannesburg from Natal. Each prominent firm hopes to get a representative through, and Messrs. Turner & Co., Pietermaritzburg (Natal) and Johannesburg, are among them.

Pharmaceutical Society of Cape Colony.

(By the "C. & D." Reporter.)

THE second annual meeting of this Society was held at Cape Town on June 21, the President (Mr. J. A. Mathew) in the chair. There were present, among others, Messrs. F. W. C. Thomas and James Jones (Vice-Presidents), D. K. Peterson (member of the Colonial Pharmacy Board), A. H. Mathew (Heynes, Mathew & Co.), W. Jeffrys, Geo. Darroll, Hiley, J. G. Moeke, and F. B. L. Johnaston. Mr. T. W. Dukes, F.C.S., of Johannesburg, was amongst the visitors.

The Secretary (Mr. W. Fick) in his report pointed out that the Society's financial affairs were very satisfactory. He regretted that, owing to failing health and his consequent absence from town, the general meeting had had to be postponed till now, but he felt sure they would pardon the unavoidable delay under the circumstances. During the past year the Society had done good work in looking after members' interests. The Bill to Amend the Medical and Pharmacy Act had passed through the Legislature, and had since come into operation, excepting the important clause bearing on patent medicines. The Half-holiday Bill had also come in for share of attention. He did not think it necessary to go over the various cases decided under the Food, Drugs, and Seeds Act, but the officers of the Society had greatly interested themselves in the proceedings instituted against chemists, in accordance with the aims of the Society. Concluding, he reminded the members that their subscriptions were due, and the publisher's invoice for the supply of THE CHEMIST AND DRUGGIST had to be discharged.

Mr. Fick then tendered his resignation as Secretary.

PRESIDENT'S ADDRESS.

The President, in accepting the resignation, made some happy remarks on the valued and honorary services that Mr. Fick had rendered during his term of office, extending over two years. Continuing, he said that, as retiring President, it would be expected that he should give an account of his stewardship. In doing so he wished to record the hearty co-operation he had always experienced from the other officers and members of the Council, and the truly fraternal spirit which had always characterised their deliberations. Although the past year had not been an exceptionally busy one as regards the Society's operations, he thought, upon reference to the Secretary's report, they would find that they had attained some good and definite results. There had been considerable discussions upon the Pharmacy Bill, the Early-closing Bill, the Sunday Trading Act, and the Food, Drugs, and Seeds Act; also the introduction of the new Pharmacopoeia. These deliberations had, he hoped, tended to maintain a lively interest in all matters pertaining to their general welfare. In the recent prosecutions under the Food and Drugs Act the Council was well represented, both by individual members and legal advisers, who watched the proceedings. Some amusement was afforded by the earnest manner in which the analysts for plaintiff and defendant sought to establish their respective theories, to the bewilderment of Bench and Bar, who will not easily forget the constituent vagaries of such an important preparation as "Gregory's powder." He thought the general public were

convinced that the prosecution was a puerile one, and the result a failure. He was glad to record that the social phase of the Society had been well maintained and with marked success. The banquet held in March last year was thoroughly appreciated, and he was very pleased that the interview he had with Mr. Martindale, F.L.S., F.C.S., the esteemed President of the Pharmaceutical Society of Great Britain, resulted in his consenting to be entertained by them. A banquet for that purpose was arranged last month on his return voyage from Natal, and he (the President) felt sure that this mark of respect was appreciated by him, and the opportunity given the members of the Society of having such a distinguished guest was nobly responded to. His great regret was that, being at Port Elizabeth at the time on Pharmacy Board duties, he was prevented from enjoying this privilege with them. By way of promoting the social elements in the Society, he would like to suggest that a chess-tournament be arranged during the present session, say, "Colonial-born v. Mother Country," or "British v. Africander"—(laughter)—if preferred. He also hoped that members would not lose sight of the intellectual element, but provide some papers upon subjects of mutual interest for the quarterly gathering. Upon retiring from the presidential chair, to which he had been called last year, he thanked them for that honour they had done him, and also for the kind and considerate manner in which they had supported him during his term of office. He hoped his successor would be able to manifest more life and vigour than his predecessor, whose advancing years must be his apology for any shortcomings. He would like also to add his high appreciation of the valuable and self-sacrificing services of their worthy Hon. Secretary. (Applause.)

ELECTION OF OFFICERS.

The following officers were then elected for the ensuing year:—President, Mr. F. W. C. Thomas; Vice-Presidents,



THE NEW PRESIDENT.

Mr. F. W. C. Thomas served his apprenticeship in Ebeleben, Germany. Afterwards he studied under Professors Flückiger at Strassburg and Kékulé and Wallich at Bonn, and became an apotheker. He then came to England, and got to know English pharmaceutical ways, then went out to the Cape nearly twenty years ago for Messrs. Burgoyne, Burbidges & Co.

Messrs. J. A. Mathew and James Jones; Hon. Secretary, Mr. Magness Elgar. The following gentlemen constitute the Council:—Messrs. D. K. Petersen, A. H. Mathew, W. Fick, W. Jeffrys, Geo. Darroll, and M. A. L. Tothill (Cape Town), Mr. C. E. Gardner (C. E. Gardner & Co., Port Elizabeth), Mr. Mr. W. H. Helmore (Helmore & Aldridge, Kimberley).

The proceedings terminated with the usual vote of thanks to the President and congratulations to new officials.

Westminster Wisdom.

MANUFACTURED TOBACCO.

The Chancellor of the Exchequer (Sir Michael Hicks-Beach) on July 13 introduced a Bill into the House of Commons to restrict the amount of oil in manufactured tobacco. The Bill was read a first time, and a second time on July 18.

COMMITTEE ON AGRICULTURAL SEEDS.

A considerable amount of evidence has been taken before the Departmental Committee appointed by the Board of Agriculture to inquire into the conditions under which agricultural seeds are sold, and the committee hope shortly to close this portion of their work and to proceed to the consideration of their report.

VETERINARY SURGEONS AMENDMENT BILL.

On the second reading of this Bill in the House of Commons on Friday, July 13, Lord Tweedmouth said there were two corporations which granted diplomas to veterinary surgeons, the Royal College of Veterinary Surgeons and the Highland Agricultural Society, and that the object of the Bill was to give to the latter body powers already possessed by the former—namely, to withdraw diplomas in cases of gross misconduct.

MANUFACTURE OF PICRIC ACID.

Replying to Sir C. Dilke in the House of Commons on July 17, Mr. Wyndham said that the plant in this country for the production of picric acid is now sufficient to meet the needs of both services, and to provide for the accumulation of large reserves; but in order to meet needs even in excess of that standard, steps are being continually taken to increase the available plant. Three new factories have recently been started.

NEW MEDICAL ACTS AMENDMENT BILL.

The new Bill to amend the Medical Acts, 1858 to 1883, introduced into the House of Commons on Friday, July 13, by Sir Richard Jebb, and backed by all the representatives of Universities in the House who are not members of the Government, proposes by Clause 1 to enable the General Medical Council to erase from the Medical Register for a limited period the name of a practitioner guilty of professional misconduct. Clause 2 enables the medical authorities to withdraw his diploma from any practitioner whose name has been so erased from the register; and Clause 3 provides that all penalties recoverable under the Medical Acts shall be paid to the General Medical Council to aid the expenses of executing those Acts. At present such penalties when awarded in the metropolis are claimed by the receiver of police.

WAR OFFICE CONTRACTS.

Up to the present nothing relative to the chemical and drug trades has transpired before the House of Commons Select Committee which is now holding in inquiry in connection with the alleged irregularities of War Office contracts; but at the sitting of the Committee on Friday, July 13, Mr. Thomas Wildash, of Wildash & Sons, varnish and polish manufacturers, of Bartholomew Close, London, who had been on the list of contractors to the War Office for twenty years, but had never been successful during all that time in getting a contract although they had frequently tendered, said that on March 23 last they were applied to for a tender for varnish-polish. His firm tendered at a very low figure—namely, 3s. a gallon for 40 gallons—the market-price being about 5s. or 6s. The firm, in consultation, determined to tender at this very low figure in order to find out whether price was a consideration with the War Office or not. They failed to get the order, and subsequently received a letter stating that their tender was refused because of the quality of the samples supplied. The Chairman of Committee (Mr. Jackson) thought as the price had been put so low the War Office might have thought Messrs. Wildash could not supply the varnish at such a figure, but the witness said the position of their firm in the trade was a sufficient reply to that. Witness further stated, in reply to

questions by the Committee, that there might have been some irregularity in the War Department. There was a good deal said about that kind of thing in the trade, but he did not wish to repeat mere loose talk. He had never known a bribe being offered by contractors. Being pressed to say what had been said in the trade concerning these contracts, he mentioned that only last night a friend of his, whose firm was in the habit of tendering, said, "We have got a fellow who knows how to do it." Witness said, "Well, we do not want to know how to do it; we have never bribed anyone in our lives, and we do not want to begin it." It was a sort of general talk, but nobody would actually tell them "how to do it." He attended the Committee to show that his case supported the common talk in the trade. He thought Lord Russell's new Bill concerning Secret Commissions would stop this sort of thing. He certainly thought something must be wrong on account of his firm's experience, but as he had no further proof he did not wish to make assertions that he could not prove.

COMPANIES BILL AND PARLIAMENTARY BUSINESS.

Pressure is being brought to bear on members of the House of Commons for working-purposes as the Session draws to a close, and Mr. Balfour informed the House on Monday evening last that he hoped the Companies Bill, the Money-lending Bill, the Bill recently introduced by the Chancellor of the Exchequer dealing with the subject of oil in tobacco, and several departmental Bills would pass into law. The Irish Tithe Bill and Agricultural Holdings Bill are also so far advanced that it is almost certain both will pass. On the other hand, some most important legislation will remain shelved till next Session. This includes *inter alia* the Factories and Workshops Bill, the Lunacy Bill, the Youthful Offenders Bill, the Savings Banks Bill, the Fisheries Bill, and the Scotch Education Bill. Four days of the Session are to be devoted to supply, one to report, and there are the important Supplementary Estimates to be introduced by the Under-Secretary for War to provide for what it is hoped will be the final payments for the war in South Africa and also for the military operations in China. The 12 o'clock rule has already been suspended, and the House did not rise till a quarter to 2 on Tuesday morning. If matters are pushed along as the Government hope they will be, the week commencing August 5 may see the end of an historical Session of Parliament.

The Standing Committee on Trade resumed the consideration of the Companies Bill on Monday, July 16, Mr. A. O'Connor presiding. When the Committee adjourned Clause 14 was under discussion. It will thus be seen that the enactments contained in the Bill are being thoroughly discussed irrespective of the time occupied.

The Dental Companies' Defence Union have issued a circular to Members of Parliament urging the necessity of amending, upon report, the third clause of the Companies Bill on the ground that in its present form "it absolutely prohibits a company from carrying on the business of a dentist, however qualified the staff may be." By way of illustration the case is cited of a company having a nominal capital of 100,000*l.*, held by about 80 shareholders (including several widows and thrifty persons of limited means), whose chief business is the manufacture of artificial teeth. This firm, which has a staff of eighteen duly qualified and registered dentists, is, it is stated, burdened with innumerable contracts, leases, &c., and, if suddenly inhibited, will be practically ruined. The Union suggests that the clause should be modified on the lines of Clause 2, dealing with chemists and druggists. [This was what Mr. Galloway said.]

THE enforcement of the regulation prohibiting the importation into Brazil of goods bearing labels in Portuguese has been postponed until September 30.

MADAGASCAR TRADE.—General Customs warehouses are to be established in Madagascar for the storage and preservation of raw materials, manufactured articles, and merchandise generally; and a decree has been issued from the French colonial department providing for the establishment of a bonded warehouse at Tamatave, which will be open for all dutiable and prohibited goods, subject to "sea-octroi" and other duties as may be imposed by the Governor-General of the island.



TO CORRESPONDENTS.—Please write clearly and concisely on one side of the paper only. All communications should be accompanied by the names and addresses of the writers. If queries are submitted, each should be written on a separate piece of paper. We do not reply to queries by post, and can only answer on subjects of general interest.

Henbane Plants.

SIR,—If any of your readers would like to try to grow a few healthy biennial hyoscyamus plants I shall be pleased to supply them if they will enclose postage-stamps to cover cost of sending. Yours faithfully,

F. H. ALCOCK.

Grange Farm, Brandwood End, Birmingham, July 12.

Wrong Vowels.

SIR,—In your report *re* passing of Manx Pharmacy Act in this week's issue of the *C. & D.* there is a slight mistake. It runs: "The Governor sat in state in the Tynwald Hall." Should be "on the Tynwald Hill," or "sat in state in Tynwald on Tynwald Hill." The ceremony is Tynwald, and the mound from which the laws are annually proclaimed from time immemorial is called Tynwald Hill.

Yours truly,

J. R. WILLIAMS.

Peel, I.O.M., July 14.

Tinctures.

SIR,—In reply to Mr. Elborne's remarks respecting the alcoholic strength of the menstruum for tr. opii, a mixture of equal volumes of 90-per-cent. alcohol and water contains 45.41 per cent. (by volume) of alcohol, or 79.57 per cent. (by volume) of proof spirit, so that for practical purposes the figures given in Columns III. and IV. of my table are correct.

I am much obliged to Mr. H. Wippell Gadd for kindly pointing out the clerical error in the sp. gr. of tr. nucis vom. The figures should be 0.910 *not* 0.853.

Yours faithfully,

FRED. W. FLETCHER.

July 14.

To Honour Volunteer Compounders.

SIR,—At a time when everyone is so engrossed with everything concerning the war, might I be allowed to make a suggestion which may interest all concerned with pharmacy? As all know, there are engaged with the Imperial forces in South Africa a number of chemists' assistants and dispensers who have enlisted as compounders for the duration of the war. Many of these young men have given up comfortable berths at home, and are undergoing the hardships and trials which such a campaign entails in order to serve their Queen and country. As a recognition of their loyalty I think a subscription to provide with a free course of instruction at a pharmaceutical college any who are not at present qualified and may be desirous of becoming so on their return, would be the most useful and acceptable form. I feel convinced that if the matter were taken up by some of our wealthy leaders of pharmacy that all would insist in contributing to such a worthy object.

X. Y. Z. (110/2)

Tired of It.

SIR,—I am an apprentice approaching the end of a five-years' apprenticeship in the retail trade. As I am not desirous of spending all my days handing "1d. soothers" over a counter, could you suggest any branch of the trade abroad in which there would be a little more manly labour and a little less smirking and imaginary hand-washing? Do you think if I went in for the B.Sc. degree there would be more likelihood of getting a better situation? I am afraid that owing to private reasons I could not go in for a naval dispensership or as an army compounder, at least not until their status is raised. I have thought of gold-assaying and

of mine-prospecting, but would like to get your views on the subject.

Yours respectfully,

MARS. (109/3.)

[The business which "Mars" is so desirous of quitting has given to the world several Fellows of the Royal Society. "Mars" should read Herbert Spencer's "Education" and Carlyle's "Heroes" or "Sartor Resartus," before embarking on gold-seeking adventures.—EDITOR.]

Cruelty to Animals.

SIR,—I should like to earn the gratitude of many old friends by asking through your columns why our drug and sundry houses think it necessary to send round their travellers during this tropical weather arrayed in "customary suits of solemn black" and tall black hats? Is it due to inherent conservatism, which fears some customer may order 1 lb. less effervescent saline if straw instead of black felt enters his shop, or to the latent idea that if you sweat a man's brow it will of necessity stimulate and increase his vitality and brain-power? This may seem a trifling matter, but I cannot help thinking that if these gentlemen were only clad in one of the rational costumes now universally adopted, and fashionable both in the City and West-end, they would be able to put far more energy in their daily work than is now possible. Faithfully yours,

T. H. POWELL.

116 Denmark Hill, London, S.E., July 17.

[We noticed a distinguished pharmacist in the Royal Institution on Wednesday in a becoming summer suit of light-grey tweed. This gives the lead to the rest of the trade.—EDITOR.]

The Companies Bill.

SIR,—In accordance with the suggestion of "Xrayser" in THE CHEMIST AND DRUGGIST of last week, I have written the Lord Chancellor, and I send you herewith a copy of my letter.

Faithfully yours,

WALTER H. KEEN.

15 Market Place, Penzance, July 18.

MY LORD,—The Companies Bill, now before Parliament, includes a provision with regard to the practice of pharmacy and the use of titles by limited liability companies, which cannot be recognised by qualified chemists as consistent with the existing Act, or the purpose for which it became law.

The curious anomaly of Clause 2 in the Bill referred to is that it introduces one law for an individual, another for a company. No precedent for the use of titles "by proxy" exists in any profession or trade requiring personal qualification or registration—a proposal not only unfair to those who have earned the titles they use and desire to practise legitimately, but also destined to seriously mislead the public and undermine the principle of education.

Permit me, therefore very respectfully to solicit your valuable aid in preventing the clause specified becoming law, in its present form, and to urge the desirability of an amendment "compelling the principals or founders of all limited companies to qualify in the same manner as an individual or person under the Pharmacy Act."

I am, my Lord,

Your obedient servant,

WALTER H. KEEN.

The Right Hon. the Lord Chancellor.

Condy's Fluid.

SIR,—In a recent issue we notice that you state Condy's fluid has been patented, and that the patent has now expired. You add that no one but the original proprietors have any right to use the name "Condy," or to copy the label, &c.

You are perfectly correct as to copying, but it is absolutely clear to us that any chemist could use a label which would convey clearly to the public that what they were purchasing was the fluid covered by the said expired patent, and in such a label the name of "Condy" could certainly be brought in most conspicuously, and even if care were taken the actual expression "Condy's Fluid," that is, if the fluid Condy sold agreed with the patented formula.

One thing the chemist would have to be careful about would be to see that the fluid was the patented article, but as a copy of the specification could be obtained by any chemist, that should present no difficulty.

Yours faithfully,

G. G. TURRI & CO.

Melbourne, June 8.

[Our correspondents are Australian patent agents. The advice which they give sounds reasonable, but the "if" which they in-

roduce is momentous. Apart from that retailers should note that two distinct properties were created and originally owned by the proprietors of Condy's fluid—(1) the patented process for making the fluid; (2) the title, trade-mark, and all other property in the fluid not covered by the patent. The first property lapsed at the expiry of the patent, the second and infinitely more valuable property remains. There is no objection to making a disinfecting fluid according to Condy's expired patent, but to use the name is to infringe the other right.—EDITOR.]

Dispensing Notes.

A section for the elucidation of difficulties and interchange of views on dispensing-problems.

113/5. *M. H. J.*—"Sulphate de strychnin 0.03 centigram" in the prescription means 3 centigrammes, for the whole mixture.

109/73. *Vitogen*.—There is no reason why the dusting powder containing permanganate of potash should explode. Titrate the permanganate with the powdered talc, then add the subnitrate of bismuth and the rice-powder, mixing very lightly, and finally sifting.

A Bismuth-mixture.

SIR,—Could you kindly inform me in THE CHEMIST AND DRUGGIST the best way of dispensing the following prescription?—

Bismuth. subnit.	...	...	gr. v.
Bismuth. carb.	...	...	gr. v.
Pulv. tragac. co.	...	...	gr. x.
Aqua ad	...	...	3ss.

Mitte 3vj.

When first made up it is easily poured from the bottles, but after standing a few hours it forms a solid mass. I have tried several ways of manipulation, but all have the same effect.

Yours faithfully,

BISMUTH. (115/48.)

[That is a way bismuth-mixtures have. It is due to the acidity of the bismuth subnitrate. A few grains of sodium bicarbonate prevents it.]

Order of Mixing.

SIR,—Much difference of opinion amongst pharmacists prevails on the subject of the order of mixing when the simple instructions are, as in the B.P., under hartshorn and oil, "Shake together," or under others, "Mix"; and as in a prescription like the following, with the appendage "Misce." A plebiscite might be taken, and the majority would be perhaps wrong in their choice of modus unless they had made the experiment. The prescription has been going the round of Birmingham, and is as follows:—

Liq. ferri perchlor.	...	...	3ij.
Liq. ferri dialysat.	...	...	3iij.
Liq. arsenical.	...	...	3iiij.
Aque ad	...	...	3viij.

Misce.

What say *C. & D.* dispensers? Yours truly,
BRUM. (24/90.)

What is This?

SIR,—Would you kindly insert the subjoined in your queries column to see if any of your numerous readers can throw any light on the prescription? It strikes me as if it emanated from the inventive brain of an individual who was determined that the prescription could not be dispensed elsewhere except by him. The lady who brought it to me said she was informed by the hair-specialist who wrote it that any chemist could make it up. No doubt, if one only knew for certain what was intended by the fancy names of "argent. compound," "water alkaline," and especially "strong cocoection." The following is the prescription:—

Nit. pilocarpine	...	...	gr. 3
Spt. vini rect. (90 per cent.)	...	...	3 oz.
Argent. compound	...	...	1 oz.
Cochineal	...	...	6 m
Water alkaline	...	...	8 oz.
Strong cocoection	...	...	1 oz.

Mix.

Singapore, May 31.

Yours faithfully,
JAMES MCKENZIE.

109/69. *Perplexed*.—"Confect," of senna-pods is a slip for "liquid extract" or "elixir," especially as it is to be labelled "aperitive elixir." The use of senna-pods as an aperient was revived in 1889. We do not know what firm is meant by the initials "J. & W."

Legal Queries.

Before sending in a query for reply in this section see if the subject is not dealt with in "The Chemists' and Druggists' Diary," 1900, pages 212-226, and pages 259-262.

125/48. *Zeta*.—Acetic acid is commonly called "Wood vinegar," but it has been held not to be "vinegar." See also reply 126/12.

126/12. *T. B. J. B.*—In the purchase of articles under the Sale of Food and Drugs Act it is requisite that the articles should not be taken out of the shop before it is divided into three portions. The section of the Act says, "The person purchasing shall, after the purchase shall have been completed, forthwith notify the seller," &c. It has been held that "forthwith" here is to be reasonably construed, and that the case of a purchaser on behalf of an inspector going to door with the sample to bring in the inspector, was a compliance with the provision. Unless, therefore, you can show that the article has been changed during the minute or two it was out of your sight, it would not benefit you to rely upon the letter of the law, especially in the face of the High Court decision. There is no quite authoritative decision as to what "vinegar" is, but there are many convictions for the sale of coloured and flavoured dilute acetic acid as "vinegar."

127/5. *Law*.—It is rarely necessary to give an errand-boy's parents notice that he must leave, still it is the legal requirement.

134/46. *A. B.*—The fact that the indenture has carried through some apprentices who, with their employers, faithfully adhered to the conditions, does not prove completeness of the form. An indenture is a contract to do certain things, and the names of the persons contracting must be stated or referred to in some manner so as to include the signature. As far as we can judge without the document your solicitor is right.

134/44. *Salol*.—(1) The resolution in regard to carbolic acid is not yet legally binding. When it is, the acid, if put up in closed vessels, labelled as specified in the resolution, and if prepared for agricultural and horticultural purposes, may be sold by anybody. (2) Beef and malt wine is not a medicine, and those who sell it must obtain an "off" licence. (3) Methylated finish need not be labelled by those who sell it. It is methylated spirit which must be labelled "Methylated spirit."

127/37. *C. B.*—"Health Saline" and "Health Salt" are descriptive titles, and as such are not available for registration as a trade-mark. We do not make trade-mark searches, but it will be unnecessary for you to spend money on such a search.

121/11. *Inquirer*.—Payment of commission to travellers after they have terminated their engagement may be stopped by the principals immediately if there is no specific agreement. In some branches of trade it is the custom to allow commission in respect to unexpired orders, but that is entirely a matter of evidence, and there is no period recognised generally.

129/19. *Apotheker*.—The use of methylated spirit for the manufacture of liniment of soap is permitted by the Board of Inland Revenue, and we have no doubt that the Board would grant you permission to use it in making spiritus saponatus, P.G., provided you explain that it is for hospital use. It is also possible that the Board would grant permission to use it for making tincture of iodine for hospital purposes; but methylated spirit is a bad menstruum for iodine, because most irritating allyl and acetone products are produced.

Miscellaneous Inquiries.

We endeavour to reply promptly and practically to trade questions of general interest, but cannot guarantee insertion of replies on a particular date, nor can we repeat information given during the past twelve months.

102/1. *B. J. L.*—Try a guttapercha-coated wire for the motor wire which has to pass through strong sulphuric acid.

102/73. *W. T. T.*—You may use the carboy colours given in "Pharmaceutical Formulas" for the saloon-bar bottles. Aniline dyes would suit the purpose perfectly, and would last for some months. The renewal would be good for you, and you can reasonably assure your customer that the colours are the brightest. Make plain-water solutions, and put a few drops of paraffin oil on the top of each when filled up to prevent access of air; but this is not essential.

104/38. *Lavender.*—Post as an Assayer.—A Minor man who wishes to take up this branch of work should spend at least a year in metallurgical studies—for example, in the Finsbury Technical Institute—but two years would ensure a better position in the future. Salaries for assayers vary according to the place of work, but rarely exceed the equivalent of 120*l.* a year in England to begin. You should get the syllabus of the City and Guilds of London Institute and look over the subject of metallurgy, then make some personal inquiries.

101/23. *B. F.* wants to know what to do with a Cow Whose Milk is Dribbling Away constantly from one quarter. Collodion has been tried and found wanting. [If the leakage is anything approaching to the quantity named (2 gals. a day) it is perfectly useless to prescribe. The cause is rupture or paralysis of the sphincter muscle which regulates the outflow of milk. In the normal teat this sphincter completely closes the orifice, and milk is only obtained by relaxing the muscle by pressure of the hand (or calf's mouth) with a volume of lacteal fluid above. The proper advice to give in such a case is to dry off the cow as rapidly as possible with large doses of alum (4 oz. twice a week), irregular milking, never taking all that can be got, giving dry food, and as soon as secretion of milk is practically arrested, fat her off for the butcher. If however she is of a breed that will not fatten, the quarter had better be obliterated by first stripping, and then injecting with a weak solution of iodine, increasing the strength after a few days. If this is done judiciously, the quarter will shrink and harden, and nearly as much milk will be produced by the remaining three quarters.]

104/24. *J. C. L. R.*—You must be working with a poor sample of glue, for 1 of glue to 6 of glycerin and water is a little stronger than the usual proportions for a graph. Try English gelatin.

166/90. *Corleg* (Port Elizabeth).—We do not know what Viano is composed of, or any of the advertised bunion-developers. Presumably the internal preparations are tonics of the iron-and-arsenic class (*e.g.*, pil. ferri c. ac. arsenios. gr. $\frac{1}{100}$) and the external a lubricant of an oleaceous character; but it is pure nonsense to say that this "acts directly upon the serous areolar, or cellular tissues, and the muscular surroundings, covering and supporting the glands and organs of the chest. By thus relaxing and softening of the outer muscles, fibres, and skin, it aids in localising and establishing the effects of the internal, or constitutional, remedy. This 'external' preparation exercises a subtle, but beneficial and powerful specific influence upon these particular organs, the mammae, or breasts, whereby their harmonious development is permanently secured." An analysis of this specious description reveals nothing definite.

104/31. *Handy-man* wants to learn Mechanical Dentistry himself. We strongly recommend him not to attempt it. He would learn as much in a week under a practical man as he would in six months himself. Hunter's "Practical Dentistry" (7*s.* 6*d.*) is a book he should read, and others are published by C. Ash & Sons (Limited).

183/13. *F. M.*—For some Hospital Appointments as Dispenser the Society of Apothecaries' Assistants' certificate is all that is required, but it is best to get the qualifying certificate of the Pharmaceutical Society. You will find all particulars in regard to these exams. in the *C. & D.*, September 2, 1899.

108/59. *Pulegii.*—The letter to us will suffice for reference if need be.

109/21. *Emigrant.*—The Australian colonies are all pretty "full up" with chemists. You will find as keen competition there as here, but the returns are larger, and a go-ahead man can always get on. New Zealand is better than Tasmania.

117/52. *Hannaw.*—Your present salary, 35*s.* per week, is very good for a junior assistant, unqualified, and if the conditions of the new place offered to you are as good the same salary should satisfy you.

120/57 (*Acid. Sulph.*) and 116/11 (*S. H. C.*)—You will find all about study for practice as an analyst in our last Educational Number September 2, 1899. There is no legal qualification.

123/45. *Nomad.*—Powder for Red-water in Cattle, approximating your sample:—

Carbo. lig.	...	...	...	...	3 <i>ss.</i>
Pulv. gentian.	...	...	...	...	3 <i>ss.</i>
Pulv. zingib.	...	...	...	...	3 <i>ss.</i>
Pulv. glycyrrh.	...	...	...	...	3 <i>iiss.</i>

For the best treatment of this disease reference should be made to the *C. & D.*, February 11, 1899, page 267, and May 27, 1899, page 838.

83/49. *Irankoe.*—Self-glazing Starch.—The composition of your specimen is nearly like this:—

French chalk...	...	...	...	1 oz.
Powdered soap	...	...	...	1 oz.
Powdered borax	...	...	...	1 oz.
Powdered starch	...	...	...	2 lbs.

Mix well.

Two tablespoonfuls of this starch is required for a pint of water.

123/8. *Alvin.*—We do not undertake the assaying and valuation of chemicals.

125/8 (*Nosirrah*) and 120/9 (*F. G. H.*)—Insects Infesting Drugs.—If you will refer to Mr. Knight's paper on this subject in the *C. & D.*, February 24, page 330, you will have no difficulty in recognising the insects you send as members of the genus *Silvanus*. Mr. Knight found that earbon bisulphide was the best for killing both the insects and the larvæ. Chloroform also answers the purpose admirably.

108/6. *W. J. H.*—Preserving-powder.—This is one of the usual mixtures of boric acid and borax. The ingredients are present in about equal proportions.

106/35. *Ed'x.*—Seurf-pomade as your sample:—

Cere flav.	...	...	...	...	3 <i>iiss.</i>
Adipis	...	...	...	...	3 <i>xij.</i>
Ol. anchusæ	...	...	...	...	3 <i>xij.</i>

Melt together in a water-bath, remove from the source of heat, and when nearly cool stir in—

Ol. citronella	...	...	...	...	1 <i>xxx.</i>
Ol. limonis	3 <i>ij.</i>

Lastly, when cold, mix in on an ointment-slab—

Hyd. ox. rub. levig.	3 <i>ij.</i>
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121/73. *Veto.*—(1) The Lotion for Skin-diseases in Animals is liq. calcis sulphurate made by boiling together in an enamelled vessel for half an hour:—

Slaked lime	...	...	...	...	3 <i>viiij.</i>
Sulphur	...	...	...	...	3 <i>xij.</i>
Water	...	...	...	...	O <i>iv.</i>

(2) Liquid Soap for washing dogs.—This has apparently been made by digesting together a mixture of earbolic oils (1 gal.), palm oil (1 lb.), soda ash (3 lbs.), and spirit and water (of each 1 gal.). The clear portion of the above mixture is the part used.

116/14. *C. S.*—You give no particulars of the use of the "poison for sheep," but we will retain the sample so that you can make good the deficiency.

108/8. *J. D.*—Sweet Pepper.—The sample is a good specimen of Hungarian pepper, used a a colour-food for canaries. The colour of this drug is very sensitive to light, and hence the article should be sent out in tins.

121/60. *Zylo.*—(1) Sulphur Skin-lotion:—

Zinci sulpho-carbol. ...	...	...	5j.
Zinci oxidi ...	...	...	5ij.
Sulph. præcip. ...	...	...	5j.
Carmini ...	...	...	gr. ij.
Glycerini ...	...	...	5vj.
Aq. coloniensis ...	...	...	5vj.
Aq. rosæ ad ...	...	...	5vj.

Rub the powders together well, then add the glycerin, rose-water, and eau de Cologne.

(2) Rosemary and Cantharidine Hair-wash:—

Tr. cantharidis ...	...	...	3ss.
Spt. myrciæ ...	...	...	5j.
Spt. rosmarini ...	...	...	5j.
Liq. ammoniæ ...	...	...	5ss.
Aq. rosæ ad ...	...	...	5viij.

M.

The colour of this preparation is generally darkened by the addition of a little burnt sugar.

122/50. *Lloyd.*—Half-tone and zinco blocks for illustrating price-lists can be had from Lascelles & Co., 13 Fitzroy Street, Fitzroy Square, W., whose advertisement you will find in the 1900 DIARY.

121/45. *Photo.*—Please refer to THE CHEMISTS' AND DRUGGISTS' DIARY, 1900, pages 266, 267, and 526, for developer formulas. Recipes for toning and fixing solutions were given in the last volume of the *C. & D.*, page 33 (January 6) and page 73 (January 13).

120/56. *W. H. L.*—Your formula for chlorodyne has not enough suspending ingredients to give an inseparable mixture when made on a small scale. There is a formula in THE CHEMISTS' AND DRUGGISTS' DIARY, 1897, page 263, and "Pharmaceutical Formulas," page 459, which gives a good result, and which involves, as you will see, the use of a small quantity of tragacanth.

121/72. *A. S. (N.S.W.).*—(1) The washable distempers are, we understand, composed of kieselguhr, whiting, and plaster of Paris. The tinting is managed with brown umber, yellow and red ochre, Prussian blue, Paris green, Venetian red, Indian red, Brunswick green, and Dutch pink. (2) Quinoline yellow occurs on the market in two forms. The spirit-soluble variety—quinophthalone—is insoluble in water, and but sparingly soluble in spirit. It is employed for colouring spirit-varnishes and wax. The water-soluble quinoline yellow is the sodium salt of the sulphonic acid of quinophthalone. It is easily soluble in water, and also fairly soluble in spirit. You seem to have got hold of a sample which is either the spirit-soluble variety or a mixture of the two.

131/22. *Amidol.*—Boro-salicylate Jelly for eczema:—

Gelatin. ...	...	...	3iss.
Ac. borici ...	...	...	5j.
Ac. salicyl. ...	...	...	3j.
Glycerin. ...	...	...	3iiss.
Aq. ...	...	...	5v.

M.S.A.

Before use melt the paste, and apply to the part with a brush.

132/22. *Apprentice.*—As xylonite softens under the influence of boiling water you may be able to straighten out the warped developing-dishes by first immersing them in boiling water and then keeping them pressed into shape whilst they are cooling.

111/70. *J. J. J.*—(1) The tests for morphine and tartaric acid are given in most books on chemistry. (2) Solutions of cocaine decompose owing to the development of organisms.

A preservative is added to prevent the fungoid growth—the B.P. orders salicylic acid, Dr. Squibb prefers boric acid, others have recommended camphor-water, but the best method is probably that of the Codex, where the solution is to be sterilised by boiling for fifteen minutes. The Codex, however, adds an N.B. to the effect that the solution is best made at the time of use.

132/72. *Ginger.*—Preserving Ginger-beer.—Eight grains of salicylic acid to the gallon is best for bottled beer. For draught-beer bisulphite of lime (5j.) or potassium metabisulphite (10 gr.) is used.

127/5. *Cindy.*—Digestive Candy.—There are three good formulae for this in "Pharmaceutical Formulas." Here is another:—

Puly. rhei ...	...	...	5j.
Puly. zingib. ...	...	...	5ij.
Puly. carui ...	...	...	5ss.
Puly. cardam. ...	...	...	5ss.
Sacch. alb. ...	...	...	lb v.
Aq. cinnam. ...	...	...	5v.
Aq. destil. ...	...	...	Oj. 5xv.

Dissolve the sugar in the cinnamon and distilled waters, sift in the other ingredients, boil till a little dropped on a cold slab solidifies, then pour into moulds and cut in square pieces.

Information Wanted.

Postcard replies to any of the subjoined inquiries will be esteemed.

124/73. Makers of cooked flour and powdered milk for infants' food.

134/56. Address of maker of compo-washing powder sold in 2*l.* packets.

133/15. Who are the makers of Royal Brigade stramonium cigarettes?

134/42. London agent for 4-oz. French white-flint Mexican bottles, No. 264.

Marriages.

BROWN—McRAE.—At Edinburgh on July 11, by the Rev. J. R. Sabiston, B.D., Richard Brown, druggist (Raines, Clark & Co., Edinburgh), to Flora, elder daughter of Mr. A. McRae, chemist, Edinburgh.

PALLISTER—MOON.—On July 3, at West Didsbury, Manchester, by the Rev. S. O. Scott, John Pallister, chemist, Ramsey, Isle of Man, to Evelina Frances, younger daughter of the late Mr. J. Moon, Liverpool.

Deaths.

AUGUSTIN.—The late Mr. Hermann Augustin, Chairman of the Board of Directors of the Chemische Fabrik auf Aktien vormals E. Schering, of Berlin, whose death we reported last week, had been Chairman ever since the foundation of the company about thirty years ago, and was one of Mr. Schering's pharmaceutical colleagues and intimate friends. It is to Mr. Augustin's far-sighted appreciation of Mr. Schering's capacities as a manufacturer that the development of this enterprise is greatly due. Mr. Augustin as an apothecary was widely and well-known in the German pharmaceutical world, and was much esteemed in the pharmaceutical community for his social qualities. He was renowned for settling complicated social questions with rare tact and to the general satisfaction. Mr. Augustin retired from the trade of apothecary over ten years ago, and died at the ripe age of 73 after a prolonged illness.

ROWE.—At Norwich, on July 14, Mr. Thomas Dowden Rowe, chemist. Aged 80. Mr. Rowe, who had not been actively engaged in business for some time past, was the eldest son of Mr. Thomas Rowe, senior paymaster in the fleet, who was killed during the Crimean War while serving on H.M.S. *Cumberland* in the Baltic in 1854.

Trade Report.

NOTICE TO BUYERS.—The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of drugs and oils vary greatly, and higher prices are commanded by selected qualities even in bulk quantities. It would be unreasonable for retail buyers to expect to get small quantities at anything like the prices here quoted.

42 Cannon Street, London, E.C.: July 19.

THE drug and chemical markets have been quiet this week, but there is a firm undertone in most articles. The feature of the week is the advance of $1\frac{1}{2}d.$ per oz. in quinine by makers, which was anticipated, and it is not unlikely that there may be a further advance, as, according to the statistical position, it is quite warranted, so makers say. In the second-hand market a good speculative business has been done at dearer rates. Another busy week has passed in opium, the demand being chiefly for druggists' qualities, at again higher figures. Smyrna telegrams report that China is a buyer on the market. Chinese essential oils are very firm, but business is not quite so brisk as last week. Blue Persian galls have sold at a famine price, and glycerin is still rising. The demand at the drug auctions was very poor, the hot weather doubtless interfering with business. Other changes are as under:—

Higher	Firmer	Easier	Lower
Cardamoms	Ammonium sulphate	Aloes, Cape	Isinglass
Cinchona		Bleaching-powder	Petroleum
Dragon's-blood	Glycerin	Ginger (Jam.)	Touka beans
Galls	Oil, anise, star		
Oil, castor	Oil, lemon		
Oil, cassia	Pepper		
Oil, peppermint	Rhubarb		
(Jap.)	Shellac		
Opium	Wax, Japan		
Quinine			
Wax, bees' (Jam.)			

Arrivals.

The following drugs, &c., have arrived at the undermentioned ports in the United Kingdom, from July 12 to 19, both inclusive:—**LONDON:** Aloes (from Amsterdam) 50; (Cape) 33; birdlime (Jap.), 90; calumba, 55; cinchona (Java) 156; (from Amst.) 491; cochineal, 32; cod-liver oil, 50; colocynth, 7; cuttle-fish, 55; dragon's-blood, 4; drugs (from Hamburg) 46; (from Trieste) 31; (from Monte Video) 85; gum arabic (E.I.), 322; honey (Aust.), 55; insect-flowers, 3; insect-powder, 55; lime-juice, 101; liquorice-root (Ital.), 50; olive oil (Span.) 1,016 barrels, (from Marseilles) 138, (Ital.) 269; oils, essential (from Messina), 47 pkgs.; quicksilver (Ital.), 200; quinine (from Batavia), 25 cases; "roots" (from Trieste), 50; sandalwood, 20; senna, 11; sarsaparilla, 23; soy, 182; styrax, 3; turmeric (Bombay) 1,545; vanilla (Mauritius), 55 cases; wax, bees' (Ital.) 10, (from Havre) 16, (Natal) 36. **LIVERPOOL:** "Balsams" (Maranham), 10; eascarasagrada, 270; castor oil (E.I.), 2,706; fennel-seed, 60; guinea-grains, 84; honey (Chil.), 491; insect-powder, 50; kola, 8; olive oil, 40; opium, 54; peppermint oil, 30; tamarinds (E.I.), 18. **HULL:** Castor oil (Fr.) 10; cloves, 110 mats; cod-liver oil, 170; drugs (from Trieste) 93, (from Marseilles) 38; manna, 1. **NEWHAVEN:** Honey (Fr.), 92.

Heavy Chemicals.

[These prices are for market-centres other than London.]

At all the main centres the condition of the heavy-chemical market remains practically unchanged from late reports. There is a fairly steady all-round demand, but it is scarcely so heavy as it should be at this time, export business being specially light. Stocks, however, in most cases are not very heavy, and the hot

weather is interfering with the production. Values are mostly steadily maintained at late rates.

ALKALI-PRODUCE.—There is little of special importance to report in this branch of the trade. Bleaching-powder, however, is in better supply, and tends lower. Canstic soda keeps firm, with good demand. Soda crystals in brisk request, and somewhat scarce. Yellow prussiate of potash keeps on the easy side, and chlorates are quiet.

BENZOLS quietly steady, and a shade dearer than last quotations: 90 per cent., 9*d.*, and 50 per cent., 10*d.* to 10½*d.*

SULPHATE OF AMMONIA steady. Beckton, August-September, 11*l.* 2*s.* 6*d.*; Beckton terms, 11*l.*; Leith, 11*l.* to 11*l.* 2*s.* 6*d.*; London and Hull, 11*l.* Exports from Leith last week amounted to 375 tons.

GREEN COPPERAS quiet, at unchanged rates. Best Lancashire makes, 42*s.* to 43*s.* per ton f.o.b. Liverpool. Welsh, 13*s.* to 14*s.* per ton free on rails in bulk.

BORAX in steady demand. Crystals, 17*s.* per cwt.; powdered, 18*s.* per cwt. Boracic acid, crystals and powdered, 26*s.* and 28*s.* per cwt. respectively.

SAL AMMONIAC unchanged, at 39*l.* and 37*l.* per ton for firsts and seconds respectively.

SULPHOCYANIDES dull. Barium, 95-per-cent., 4*d.* per lb. Ammonium, 95 per-cent., 6*d.* per lb. Potassium, 7½*d.* per lb.

BARIUM PRODUCTS in good all-round request. Prices firm, with advancing tendency. Chloride of barium, best ordinary refined crystals, 7*l.* 5*s.* to 7*l.* 10*s.* per ton, free on rails, and 7*l.* 7*s.* 6*d.* to 7*l.* 15*s.* per ton, free on board in usual casks; bags, 5*s.* per ton less. Blanc fixe (pure precipitated sulphate of barium in paste form) very scarce and firm, at 7*l.* 5*s.* to 7*l.* 15*s.* per ton, free on rail, in 8 to 9 cwt. casks. Mineral sulphate of barytes, ground, in bags, 40*s.* to 90*s.* per ton, according to quantity and quality. Sulphide of barium in fair request, at 5*l.* 5*s.* to 5*l.* 15*s.* per ton, free no rails in original barrels. Hydrate of baryta, purest crystals in good demand, at 12*l.* to 13*l.* per ton, free on rails in casks, according to quantity. Of the carbonate of barytes, mineral (Witherite), there is practically nothing offering except very small parcels of lower percentages. Pure precipitated carbonate of barium in good request and scarce.

Liverpool Drug Market.

Liverpool, July 18.

CASTOR OIL.—The s.s. *Musician* has arrived with 2,700 cases of good seconds Calcutta, but it comes to a somewhat bare market, so that values are not much affected; 3½*d.* to 3½*d.* is asked from the quay, and importers say they will store if they cannot get these prices; 3½*d.* is still asked in store. A notable advance has taken place in French-pressed oil, first pressure being held for 3½*d.* on the spot, and 3½*d.* forward. English first-pressure is held for the same figures. Second-pressure of both kinds is ½*d.* per lb. less.

GUINEA-GRAINS.—Two parcels of 11 and 63 bags respectively have just arrived, and will be offered at auction in a few days.

IRISH-MOSS.—Sales are reported of the new crop at 6*s.* 6*d.* per cwt. for common grades.

QUILLARIA-BARK.—Firm, at 14*l.* per ton, which figure has been paid. It is reported that the value on the producing-centres is higher than on this market.

CANARY-SEED.—Steady, at 30*s.* per quarter for good bright Turkish. At this figure important sales have been made, several hundred bags changing hands.

GINGER, AFRICAN.—A fair quantity (7½ tons) has been sold at 26*s.* per cwt. The small remaining stock here is held at the same price.

GINGER, COCHIN.—Fifty bags have changed hands at 32*s.* per cwt., and a further parcel of 50 bags is held for 34*s.*

TURPS, after declining to 31*s.* per cwt., have now recovered, and 35*s.* is quoted.

LIME-JUICE.—Five packages of rather poor quality Dominica was sold after auction at 1*s.* 2*d.* per gallon.

BRESWAX.—Chilian is steady at late rates; notwithstanding several small arrivals the importers are very firm in their views. Values range from 7*l.* 5*s.* to 7*l.* 15*s.* per cwt., according to quality, and about 40 packages have changed hands.

COPAIBA.—The sales consist of 4 barrels Maranham at 1*s.* 5½*d.* to 1*s.* 6*d.* per lb., the higher figure being paid for good bright.

TONKA-BEANS.—For 2 small parcels of good black Para 11½*d.* per lb. has been paid in second-hands.

SPERMACELE.—For crude Chilian 85*s.* per cwt. has been paid for 47 bags.

HONEY.—Slow of sale; about 55 cases of Chilian, Pile X, have sold at 30*s.* per cwt.

WAX, CARNAUBA.—About 40 bags of fair yellow have changed hands at 82*s.* 6*d.* to 85*s.* per cwt. Grey is easier.

German Drug Market.

Hamburg, July 17.

Our drug-market in general is quiet; only Chinese produce is animated at advancing prices.

BALSAM PERU is quiet and lower, at 12m. per kilo.
 CAMPHOR (REFINED) is very quiet, at 460m. per 100 kilos. in second-hands.
 CONDURANGO is very firm and scarce, at 250m. per 100 kilos.
 COCA-LEAVES are firmer, at 330m. per 100 kilos.
 COCAINE is firm, but unchanged.
 ERGOT OF RYE is very scarce, and stocks here are nearly exhausted.
 LYCOPodium is rather firmer, at 475m. per 100 kilos.
 MENTHOL is very firm and scarce.
 STAR ANISE is firm and dealer, at 195m. per 100 kilos.
 CASSIA-LIGNEA is also very firm, to-day's quotation being 96m. per 100 kilos.
 WORMSEED is firm at 66m. per 100 kilos.
 OILS.—Cod-liver is tending firmer, at 73m. per barrel. White-seal oil firm, at 51m. per barrel. Castor oil advancing; first pressing in barrels is now 63m. to 64m. per 100 kilos. Star anise oil is dearer, at 16m. per kilo. Peppermint oil, HGH, is 4,90m. to 5m. per lb., and Japanese is firmer at 74m. per kilo. Cassia oil advancing; 94m. to 104m. per kilo. is quoted for 70 to 75 per cent., 94m. for 75 to 80 per cent., and 10m. for 80 to 85 per cent. Caraway-seed oil is very firm.

French Drug Market.

Paris, July 16.

The dulness of the market has at last subsided, and business has been much more satisfactory.

ACID, CITRIC, continues very firm, and it is expected that the extremely hot weather which now prevails will soon effect an upward movement. Stocks are insignificant, and makers have some difficulty in making deliveries off contracts.

ACID, TARTARIC.—Firm, but without change.

CHINA CINNAMON is rising, and 105f. is the actual quotation. Still higher prices are expected by holders.

CAMPHOR has declined, in sympathy with other markets.

GLYCERIN is steadily moving upwards, and to-day's quotation is 160f. It is said that the rise will continue.

CASTOR OIL.—My previous reports have been fully confirmed by events, and while last week prices advanced from 75f. to 80f., I have to-day to report a fresh advance of 4f., which makes 84f. per 100 kilos. for medicinal in barrels. Well-informed dealers pretend that 90f. to 95f. will be reached shortly, if not 100f.

GUM ACACIA (SENEGAL).—All descriptions have again advanced 5f. per 100 kilos., and dealers absolutely refuse to enter contracts. At this period the arrivals of the new crop take place, and in all probability only a limited quantity can be expected, otherwise the dealers would be delighted to sell out their old stocks. The last crop has been a failure, and consumers will do well to closely watch this article.

American Drug Market.

New York, July 10.

Business is seasonably quiet, but the market has a fairly steady tone. The enormous demand for medicines for the troops in Manila and China is keeping several firms unusually busy. All Chinese drugs exhibit an advancing tendency.

ALOES, CURACAO.—Supplies are obtainable at 34c., but most dealers quote 34c. to 4c. per lb.

ACID, SALICYLIC.—Manufacturers quote 45c. per lb., but second hands will sell at 42c.

ASAETIDA is in fair demand, and full prices are being obtained; 18c. to 23c. is quoted, according to quality.

ANISE OIL has sold up to \$1.70 per lb., and more is to be had at this figure. The tendency is upward, and some dealers refuse orders below \$1.75.

BUCHU-LEAVES are offered at 11c. to 15c., but a firmer tone is evident.

CASSIA OIL is moving upwards. High-test oil has sold up to 95c., which is now the lowest figure quoted for 75-per-cent. oil. Lower grades are obtainable at 85c. to 95c.

CASSIA BARK shows an advance of 1/2c. for all grades. Considerable sales are reported.

CANTHARIDES are irregular, but firmer on account of anticipated difficulty in obtaining supplies. Chinese are offered at 43c. to 45c. per lb., and Russian at 50c.

COCA-BUTTER has advanced to 38c. for bulk.

CUBE-BERRIES.—Heavy sales have taken place at prices ranging from 9c. to 10c. per lb. Holders now quote 11c. to 12c.

ERGOT is firm, but the demand is very small. Russian is held at 50c. to 55c.

MENTHOL is generally quoted at \$2.60 to \$2.70, with small amounts obtainable at \$2.55.

OPIMUM is dull, and case lots are obtainable at \$3.07 1/2. In quantity, supplies can be bought at \$3.

SENEGA is quiet, and easier at 33c. to 35c.

SERPENTARIA is dull and nominal at 27c. to 29c. Supplies from producing points are offered at 24c.

SUMBUL is in better supply, and obtainable at 16c. to 18c.

JALAP is strong, and up to 14c. is asked for fine quality tubers. Limited amounts are obtainable from 11 1/2c. upwards.

THYMOL is strong at \$3.25 to \$3.50 per lb.

Cablegrams.

SMYRNA, July 18, 12 A.M.—The market has advanced about 9d. per lb. all round this week, in consequence of orders having been executed on account of China.

HAMBURG, July 19, 12.1 P.M.—Refined camphor in second-hands is quietly held at 430m. per 100 kilos. Agar-agar, antimony, and cassia-bark are, however, firmer in tone.

NEW YORK, July 19, 3.45 P.M.—The market here is quiet, Opium is higher at \$3.15 per lb. Domestic quinine is advancing, and is now 35c. per oz. Senega-root is easy at 28c. per lb. Buchu-leaves are stronger at 16c. per lb. Curacao is irregular, 3 3/4c. per lb. being the latest price. Ergot is firm at 50c. per lb. Jalap is advancing and is now 12 1/2c. per lb., and hydrastis canadensis is firmer at 50c. per lb.

London Markets.

ACID, CITRIC.—There are second-hand sellers at 1s. 4 1/2d. per lb., but makers are firm at 1s. 4 1/2d.

ARROWROOT was bought in at 2d. to 2 1/2d. per lb., but privately business has been done at 1 1/2d. per lb. in St. Vincent's.

BELLADONNA.—Leaves are quoted 45s. per cwt. c.i.f., but they are still scarce. A report from Trieste states that large sales of Root have been made at 33s. 6d. per cwt. c.i.f. for America, and further orders could probably be filled at this figure.

BORAX.—Unchanged at 17s. per cwt. for crystals, and 18s. for powder. Boric acid is also unchanged at 26s. for crystals, and 28s. for powder.

CAMPHOR.—English refiners report a fairly active demand, especially for tablets at unchanged rates. Crude is very firm at 182s. 6d. per cwt. c.i.f. for Chinese or Japanese, with buyers at 2s. 6d. less. On the spot 192s. 6d. is reported to have been paid, but there is little offered. The monopoly quotation is 180s. c.i.f. In the drug-auction 15 cases of Japanese refined, in 1/4-oz. tablets, packed in 1-lb. tin boxes, were bought in at 2s. 4d. per lb. From Hamburg it is reported that the German refiners have purchased considerable quantities of crude this week.

CARDAMOMS sold irregularly and slowly in auction at an advance of about 1d. to 2d. per lb. at the following rates: Ceylon Mysore, medium long pale, 2s. 5d. to 2s. 7d.; small to medium ditto, 1s. 10d. to 1s. 11d.; open, 1s. 8d.; very small, 1s. 2d. to 1s. 5d.; good small pale, 1s. 9d. subject; medium brown, 1s. 2d.; brown and split, 11d.; good ditto, 1s. 4d. Ceylon-Malabar, lean brown, 1s. 4d. per lb. Seed, 1s. 7d. to 1s. 9d. per lb., according to quality.

CINCHONA.—The London auctions on Tuesday were not so heavy as those of the previous month, 3,105 packages being offered compared with 4,640 packages in June. There was again brisk competition and the bulk of the offerings sold at a further advance, the average unit for bark containing quinine being 2 1/4d. against 2d. in June, and for cinchonidine descriptions 2 3/4d. In the drug-auctions 58 bales of flat Calisaya-bark sold at 6d. per lb. for sound, and from 3 1/2d. to 6d. for damaged.

The following figures show the approximate quantities of bark purchased in auction:—

	Lbs.
The American factories	188,010
The Brunswick factory	107,700
The Frankfort and Stuttgart factories	80,860
Messrs. Howards & Sons	45,510
The Imperial factory	34,400
The Mannheim and Amsterdam factories	23,610
The Paris factory	12,010
Druggists, &c.	112,189
Total quantity sold	604,289
Bought in or withdrawn	101,916
Total quantity offered	706,205

The following table shows the number of original packages offered and sold:—

	Offered.	Sold.
East Indian cinchona ...	2,206	2,005
Ceylon cinchona ...	590	433
South American cinchona ...	193	153
African cinchona ...	107	107
Java cinchona ...	10	0
	3,106	2,703

The following prices were paid for sound bark:—

AFRICAN (WEST COAST).—Good red quill, 7½d. to 9d. per lb.

JAVA.—Ten cases were offered, and bought in at 8½d. for fair quill.

SOUTH AMERICAN.—Bolivian cultivated quill (233, offered 1½ sold) at 5½d. to 7d.; good rich, 9d. to 1s. per lb. Soft Colombian (17 serons) were bought in at 4d.; of Cuprea, 30 bales offered and 9 sold at 2½d. per lb.

CEYLON.—Red, natural chips and shavings, 5d. to 5½d.; root, 5½d.; broken quill, 5½d.; Ledgeriana, branch, 7d., and stem chips, 10½d.

EAST INDIAN.—Brown, renewed chips, 5½d. to 1s. 1½d.; chips and shavings, 2½d. to 9½d.; broken quill chips, 1½d. to 9½d.; stem and chips, 3½d. to 5½d.; root, 5½d. to 8d.; branch, 2½d. Red, chips and shavings, 4½d.; broken quill chips, 2½d. to 5d.; stem and chips, 1½d. to 4½d.; root, 4½d. to 6d.; branch, 3d. to 3½d.; Ledgeriana, renewed chips, 3d.; chips and shavings, 2½d. to 9½d.; broken quill chips, 5½d. to 6½d.; stem and chips, 7½d.; and root, 3d. to 8½d. per lb.

The shipments from Ceylon from January 1 to June 25 have been:—

	1900	1899	1898	1897
Lbs. ...	251,292	414,873	335,716	361,502

CREAM OF TARTAR.—Steady, at 78s. per cwt. for 95-per cent. powder, 81s. for 98 per cent., and 82s. for 99 to 100 per cent.

ERGOT is rather quieter this week, the last price paid being 2s. 2d. per lb., c.i.f., for fair Russian, and there are still sellers at this figure. In auction 7 bags of fair current Russian were bought in at 2s. 6d. per lb. nominally.

We were advised from Hamburg on July 14 that there were considerable American orders on the market some days ago, which were executed as far as possible. The remaining stock now consists of about a ton, for which 475m. per 100 kilos. is wanted, and it is probable that 500m. will be the figure before many days are over.

FERRI ET QUININE CIT.—The makers have decided to make no alteration, in consideration of the fact that the bulk of the raw material was purchased before the advance.

GALLS continue to advance, 110s. per cwt. having been paid on the spot for Persian blue; and 115s. is now asked. Greens have also changed hands at full values, and 95s. is now asked. Whites are not offered on the spot.

GLYCERIN is again firmer, the lowest price for refined, s.g. 1.260, from English makers now being 61s. per cwt. up to 65s. for finest brands. The higher prices again paid for crude are responsible for the firmer feeling.

HENBANE.—Further business has been done in German leaves at 56s. per cwt., c.i.f., but supplies are scarcer.

KOLA.—At the spice-auctions 6 packages of green West Indian offered and sold at 8½d. to 11½d. per lb., with 1 lot at 6d. In the drug-auctions 3 barrels of small African quarters realised 2d. per lb., without reserve.

LEMON-JUICE is in good demand owing to the hot weather, and prices are firm at 1s. 8d. per gal. for English.

LIME-JUICE.—In the auctions 1 hog-shead of common raw West Indian was disposed of at 1s. per gal. The market, privately, is very firm, good West Indian unworked being held for 1s. 6d. per gal.

MENTHOL is unchanged, but very firm. To arrive Kobayashi brand is quoted 9s. per lb. c.i.f., and on the spot a little can be had at 9s. 6d. to 9s. 9d., according to quantity and holder. For outside brands 8s. 9d. c.i.f. is asked; Fusi Yama is unaltered, at 9s. 3d. In the drug auction 5 cases of dullish crystals were bought in at 9s. 6d. per lb., no bid being made.

A Hamburg firm advises us that the market still shows an advancing tendency, and a large business has been done. Every

day there are numerous orders for consumption, but stocks are nearly cleared off, and nothing is offered from the other side. Values are 19½m. to 19m. for Kobayashi brand.

OIL, ANISE, STAR, is slightly firmer again, small sales having been made at 7s. per lb. on the spot, but for quantity 6s. 10½d. may possibly buy.

OIL, BERGAMOT, is firm but unchanged, at 8s. 4d. to 8s. 6d. per lb. c.i.f.

OIL, CASSIA, is dearer, business including 70 to 75 per cent. on the spot at 4s. per lb.

OIL, COD-LIVER.—Our Bergen correspondent writes on July 14, that the market is somewhat firmer now that the fishing is terminated, although best non-congealing oil can still be had at the previous quotation of 63s. per barrel, f.o.b., and prices do not at present seem likely to advance. The exports from Bergen are by no means large, being only 4,327 barrels, against 7,033 barrels at the same time last year.

OIL, LEMON, is slightly firmer this week, 3s. 6d. per lb., c.i.f., being wanted for best brands, or 1d. less for 1,000-lb. lots. Private advices from Messina, dated July 14, state that the new production of lemons will be about one-third to one-half less than that of last year.

OIL, ORANGE.—Steady at 6s. 6d. to 6s. 10d. per lb., c.i.f., for guaranteed quality.

OIL, PEPPERMINT.—In Japanese dementholised oil, the full figure of 3s. 6d. per lb., spot, has been paid, and this for a round lot. Nothing is now to be had under 4s. per lb. spot. Wayne County is quoted 3s. 4d. to 3s. 6d. net spot.

OIL, TURPENTINE.—The market closed on Thursday evening at 32s. 9d. per cwt. for American on the spot.

OILS, FIXED.—Brown rape oil steady at 29s., spot; Lard oil very firm at 33s.; Lardine oil, 23s. 6d. per cwt., for best quality in barrels; refined cotton oil, dealer at 24s. 6d., for ordinary makes in town casks; sweet oil, 25s. 3d. per cwt.

OPIUM.—A considerable business has been done during the past ten days, about 250 to 300 cases of "druggists'" and manufacturing-qualities being sold on the spot and to arrive, at still higher rates. For the limited stock of "druggists'" 10s. 3d. spot is now wanted. Quotations for Persian are quite nominal in the absence of stock on the spot; 13s. 6d. would probably be paid. To arrive, sales have been made at 13s., and there are further offers at this figure.

CONSTANTINOPLE, July 13.—There has been rather better demand for opium the past week, principally owing to London inquiries. The gathering of new crop, favoured by ideal weather, is progressing well and a good yield is now certain. New goods are coming down freely, and as soon as stocks accumulate a little more a weaker tone is probable, unless buying on a large scale should take place. The yield will probably be about 7,500 cases, and quality being excellent in every respect on a morphine basis, the crop is equivalent to 2,500 to 2,700 cases more than last year.

PETROLEUM.—Both American and Russian were reduced ¼d. per gal. on Monday, present quotations being 6½d. for prime white American, and 7¼d. for water white; Russian is 6¼d., all spot.

POTASH, PERMANGANATE.—Slow of sale, with second-hand sellers at 47s. per cwt. and less.

QUICKSILVER.—Very firm, at 9l. 10s. per bottle, both in first and second hands. An advance is expected at any moment, as a good business has been done at the above figure.

QUININE.—Dearer. On Wednesday the German makers advanced their quotations for 1,000-oz. lots by 1½d. per oz., from 1s. 4½d. to 1s. 6d. Howards' have also raised their price 1d. per oz., and now quote 1s. 9d. for 1,000-oz. lots in 1-oz. vials, and Whiffen's price has also been advanced to 1s. 6d. This rise was quite expected and warranted; indeed, it is thought by some makers that, in view of the statistical position of bark and quinine, a further advance is quite justified. It is said that the London stocks of bark at the end of this month will show a considerable decrease, owing to the good deliveries that have been made recently, and the stock is lower than it has been for some years. The stock at Amsterdam has also greatly decreased of late, it now being estimated at about 2,000 packages. It is also to be noted that the shipments of East Indian bark, which have been ex-

ceptionally heavy this year, have fallen off recently. The shipments from Java for the first half of July were 180,000 lbs. only, whereas quite 250,000 lbs. were expected. These facts have doubtless given the cue for the speculation during the past fortnight, but it is argued that the business has been confined to a few, and in many cases identical parcels have changed hands several times over, so that the aggregate quantity sold is not so large as might be expected. On Monday, good German brands, on the spot, sold at 1s. 5d.; August, at 1s. 4½d. to 1s. 5d.; and October, at 1s. 5½d., but since then 1s. 5½d. has been paid for spot transactions, 1s. 5½d. for August, and up to 1s. 5½d. for October delivery. To-day the market opened easier, but recovered later, a good business being done at 1s. 5½d. for August, and 1s. 5½d. for October. The German makers report that there is a good demand on the Continent, and they are looking forward to a brisk autumn business with the United States, where prices advanced 2c. at the close of last week. On this market, however, the demand from manufacturers has been slow up to the present.

The exports from Java during April amounted to 158 cases, shipped to the U.K. From July 1, 1899, to April 30, 1900, the shipments have been:—

	1899-1900	1898-99	1897-98
Cases ...	1,323	1,251	183

SPICES.—Pepper has been firmer owing to continued short shipments, and cloves have fluctuated in consequence of speculative movements, but other spices are very dull. At auction on Wednesday nearly all the Cochin *Ginger* offered was bought in; a few lots of bold and medium native cut sold at 58s. per cwt.; small and medium at 44s. 6d., and tips at 33s. to 35s.; cuttings brought 26s., and dull Calicut brown rough partly sold at 31s. per cwt. Jamaica was in large supply, but the demand was small, so that very little was sold at rather easier prices; Rhatoon at 38s., and common to ordinary dull at 40s. to 45s. per cwt. Good bright Penang *Cloves* were bought in at 10d. per lb.; good dark Ceylon sold at 5½d. per lb. Zanzibar were dearer at 3½d. per lb. for future delivery, but have since declined to 3¼d. to 3½d., according to position. *Pimento* steady; common sold at 3½d. per lb. *Chillies* sold at 45s. 6d. per cwt. for fair Zanzibar, and at 49s. for fine picked. Dark red *Capsicums* off stalk sold at 40s. 6d. per cwt. Good broken *Cassia-lignea* was bought in at 50s. per cwt. *Cinnamon-chips* sold at 3½d. per lb. for small dusty. *Pepper* firm; Penang was bought in at 5½d., Tellicherry at 6½d., and Alleppy at 6½d. per lb. Singapore has been sold at 6½d. on the spot, and at 6½d. for September-November steamer. Penang white was bought in at 8½d. per lb.

STYRAX.—Liquid is quoted to arrive at 70s. per cwt., c.i.f., in barrels, and 74s. in cases.

TRAGACANTH.—Rather quiet. A considerable quantity of Persian gum will shortly be on the market, for which a good inquiry is expected, as it comprises some of the better grades.

London Drug-auctions.

The auctions to-day consisted of both "new and old goods," which were in the hands of fifteen brokers. Curaçao alices in gourds was in plentiful supply, so was Socotrine, Cape, and East African. Cardamoms did not bulk so largely as usual, one catalogue of 50 cases having been withdrawn; only a few cases of fine quality were shown. There seems to have been an unusually large crop of Jamaica honey this year, but there is always a good demand for it. There was also plenty of rhubarb, but quality was mostly poor. All kinds of sarsaparilla were represented, as arrivals have been freer of late. The subjoined table shows the quantities of goods offered (in original packages) and sold publicly:—

	Offered	Sold		Offered	Sold
Aloes (Cape).....	72	57	Areca-nuts	39	0
Curaçao (gourds)			Asafetida	6	5
800, (boxes) 33,			Asphaltum	45	0
(casks) 4	0	33	Balsam, copaiba ..	17	14
E. African	59	0	Peru	6	0
Socotrine	72	8	Tolu	9	0
Ambergris	5	0	Benzoin—		
Aniseed	20	0	Palembang	89	6
Annatto-seed	26	0	Siam	45	0
Antimony	99	0	Sumatra	157	34
Araroba	20	0	Calumba	556	130

	Offered	Sold		Offered	Sold
Camphor (Jap. ref.)	15	0	Matico	4	0
Cannabis indica ..	135	0	Menthol	5	0
Cardamoms	279	63	Musk	7	1
Caseara sagrada ..	150	0	Myrrh	29	0
Casearilla	38	6	Nutmeg-paste	2	0
Cassia fistula	27	13	Nux vomica	387	40
Castorum	3	0	Oil, anise, star	10	0
Chillies	25	0	cajuput	24	0
Chiretta	53	4	camphor	50	0
Cinchona	62	62	cananga	8	0
Cocculus Indicus ..	144	0	cassia	6	0
Colocyath	15	2	cinnamon-leaf ..	10	0
Cowhage	1	2	citronella	10	0
Croton-seed	42	0	eucalyptus	55	6
Cubebs	75	0	lemongrass	7	0
Cumin-seed	84	0	limes	18	0
Cuscut	29	29	nutmeg	5	0
Cuttle-fish	100	40	orange	14	0
Dragon's-blood	15	8	pimento	8	0
Ergot of rye	13	0	rose	4	0
Fenugreek-seed ..	100	0	sassafras	4	0
Galbanum	13	0	Orange-flowers ..	4	0
Gamboge	26	0	Orange-peel	37	0
Guaiacum	10	0	Orris	33	20
Guinea-grains	37	0	Pistachio kernels ..	10	6
Gum acacia	311	17	Quillaia (tons) ..	2½	0
Gum ammoniacum ..	26	0	Quince-seed	1	0
Honey—			Rhatany	46	0
Australian	45	0	Rhubarb	288	63
Chilian	30	30	Sandalwood	34	0
Jamaica	357	311	Sarsaparilla	104	41
Insect-flowers	3	0	Scammonium	11	0
Insect-powder	13	5	Senna—		
Ipecacuanha—			Alexandrian	152	1
(Cartagena)	26	1	Tinnevely	22	75
(Rio)	49	1	Soy	3	0
Jalap	36	0	Squills	4	0
Kamala	3	0	Tamarinds	10	0
Kino	32	0	Thyme-seed	2	0
Kola	4	3	Tonka beans	7	0
Lemon-juice	33	1	Tragacanth	3	0
Lime-juice	1	0	Turnerie	361	0
Liquorice-powder ..	110	0	Vanilla	13	0
Liquorice-root	63	0	Wax (bees)	1155	22
Mastich	12	0	Japanese	20	0

ALOES.—A parcel of 59 boxes East African, consisting of good brown liver in block and pieces, were bought in at 50s. per cwt., no bid being made. Of Cape, the first lot of 20 cases was bought in with the exception of 2 cases of drossy seconds, which realised 25s. per cwt.; fair bright hard seconds were held for 29s., and slightly drossy and softish ditto, 26s. to 28s. Another lot of 52 cases sold at 26s. for fine bright hard, 25s. for good seconds, and from 22s. to 23s. 6d. for drossy and softish ditto. Curaçao: for the parcel in gourds, the highest bid obtainable was 25s. for medium brown liver; 50s. was the nominal buying-in price. Another lot of 33 boxes sold at 25s. to 23s. 6d., subject, for fair brown liver, and 18s., subject, for bright capey. Of 36 kegs Socotrine, 5 sold at 75s., and 3 kegs of dark soft but fair flavour, without reserve at 31s.

ARECA.—For fine bold but slightly wormy seed a bid of 15s. is to be submitted: the limit in auction was 17s.

ASAFETIDA.—Only very common quality was offered, and this sold at 14s. per cwt., without reserve.

BALSAM COPAIBA.—Some pale cloudy to dark mixed Bahia was included in the offers, and it sold at 1s. 4d. per lb.; another lot of 10 packages good bright thick American sold at 1s. 6d., and for thin bright Maranh 1s. 6d. was the limit.

BALSAM PERU.—No offer was made for 6 cases catalogued, and they were held for 6s. per lb.

BALSAM TOLU.—Two parcels were offered, but did not sell; the value privately of good quality is 1s. 4d. to 1s. 4½d. per lb.

BENZONIN.—In fair demand at unchanged prices. Sumatra: Good seconds of old fracture sold at 8½. "without reserve," and fair ditto of old fracture at 7½. 5s. to 7½. 15s. per cwt. Common seconds sold at 5½. 7s. 6d. to 5½. 10s. down to 87s. 6d. for low block with few almonds. Siam: Of a parcel of 17 cases, 7 sold at 10½. per cwt. for small to medium palish almonds, part blocky, and darker ditto blocky, 9½. 10s.; good

grain siftings in block, 6*l.* 5*s.* per cwt. Fair glassy Palembang seconds were bought in at 55*s.*

CALUMBA.—Small to bold rough natural sorts sold at 14*s.* per cwt., and sea-damaged at 9*s.* 6*d.* About 92 bags of a similar parcel realised 13*s.* 6*d.*, and sea-damaged 6*s.* 6*d.* per cwt.

CANNABIS INDICA.—Privately the quotation for tops is unchanged, at 1*s.* 2*d.* per lb., and 10*d.* for siftings. There is not likely to be any change in prices until some of the London stock has been cleared, in spite of the fact that an export-duty of about 2*s.* per lb. has been placed on the drug.

CASCARA SAGRADA.—Fifty bags of fair bright quilly bark imported in March were held for 25*s.* per cwt.; for another lot of 100 bags 21*s.* 6*d.* was refused.

CASCARILLA.—Siftings were the only kind sold; and 28*s.* was paid for them.

CASSIA FISTULA.—The bulk of the parcel catalogued was not up in time for sale; the ten bags offered sold at 21*s.*

CHIRETTA was in fair supply, and mostly held for 4*d.* per lb., at which figure a few packages were sold.

COLOCYNTH.—Partly sold at 1*s.* 6*d.* per lb. for small to bold dullish Turkey apple. There is some more to be had at this figure.

COWHAGE.—Two packages of fair seedy quality sold without reserve at 1½*d.* per oz.

CUBEBS.—Privately 40*s.* per cwt. is said to have been paid again this week for account of the United States; in auction no business was done.

CUSCUS sold without reserve at 2*s.* 6*d.* to 3*s.* per cwt.

CUTTLEFISH BONE.—Fair bold white bone realised 5½*d.* per lb.

A report from Trieste states that the new catch is now finished, and previous reports of a partial failure are fully confirmed. Arrivals in Trieste have been much smaller than last year, especially as regards ordinary quality.

DRAGON'S BLOOD.—Dearer, good bright lump of fair colour selling at 14*l.* (1 case), and for ditto, not so good, a bid of 12*l.* is to be submitted. A case of medium lump realised 9*l.* 15*s.* per cwt. Another lot of 3 cases of fine bright lump sold at 15*l.* 2*s.* 6*d.* per cwt.

GANBOGE.—Fair blocky pipe, mostly orange fracture, was held for 8*l.* 15*s.* per cwt.

GUAIACUM.—Ten packages of fair to good resin in block were bought in at 1*s.* 8*d.* per lb.

GUINEA GRAINS are now arriving more freely in Liverpool; the limit placed on a parcel in auction was 85*s.*, but there were no buyers at that figure.

GUM ARABIC.—In auction good pale soft Turkey sorts sold at 82*s.* 6*d.* to 84*s.* per cwt., and picked Trieste grains at 6*l.* 15*s.* for one package.

HONEY.—Jamaica sold briskly at the following rates:—Prime golden, 28*s.* to 28*s.* 6*d.* per cwt.; fine clear, 26*s.* 6*d.* to 27*s.* 6*d.*; good, 25*s.* 6*d.* to 23*s.*; ordinary sorts, 24*s.* to 25*s.*; and common dark liquid, 22*s.* 6*d.* to 23*s.* 6*d.* per cwt.

INSECT-POWDER.—Five kegs of Dalmatian powder offered "without reserve," and sold at 4¼*d.* per lb.

IPECACUANHA.—Very quiet in auction, the chief holder being highly limited, and the tendency was slightly easier, there being no orders. Only one bale of Rio sold at 12*s.* per lb. for fair quality. Cartagena root was also slow of sale, one bale selling at 8*s.* per lb. for good bold stout and clean country damaged. The *Damibe* from Monte Video has just arrived with 85 bales of Rio root, which are now landing.

KINO.—Six separate lots were offered, but no business was effected publicly. From 1*s.* 6*d.* to 2*s.* per lb. was asked for good Cochín grain, according to quality; a bid of 1*s.* was refused for slightly woody and blocky grain from Calicut.

MATICO.—Inferior and much-broken leaf was bought in at 3*d.* per lb.

MUSK.—Very scarce. Three caddies of small to bold thin-skin blue, fairly dry, few broken, had been sold previous to the sale. A tin of old-fashioned black pod was held for 20*s.*; and a bottle of low grain musk at 15*s.* per oz.

MYRRH.—For low and very dark pickings a bid of 18*s.* was refused; no good quality was offered.

NUX VOMICA.—The London market is now well stocked with recent arrivals, but in auction only a small portion of the offerings was disposed of, 10*s.* 6*d.* per cwt. being paid for fair Cochín seed, and another lot of 20 bags sold without reserve at 6*s.* 3*d.* for small and dark pickings.

OIL, CAJUPUT.—Fair bright Singapore sold at 2*s.* 5*d.* per bottle.

OIL, EUCALYPTUS.—For Collins's Malle brand a bid of 1*s.* 3*d.* was refused, the limit being 1*s.* 4*d.*; another lot of 6 cases "commercial" Australian sold without reserve at 9*d.* per lb.

OIL, LEMONGRASS.—Privately retail sales have been made at 3*d.* per oz., but in auction no business was done.

OIL, LIME.—West Indian distilled was limited at 3*s.* 6*d.* per lb.

ORRIS.—A sale of Italian orris was made at from 27*s.* to 28*s.* 6*d.* per cwt. "without reserve" for dark lean.

PISTACHIO-KERNELS of fair quality sold "without reserve," at from 5½*d.* to 6*d.* per lb.

QUILLARIA-BARK.—19*l.* per ton was refused for 2½ tons of crushed.

QUINCE-SEED.—Very fair Spanish was limited at 1*s.* 3*d.*, an offer of 1*s.* 2*d.* being rejected.

RHUBARB.—There was the usual slow demand to-day, buyers hesitating to pay the higher prices asked, but where sales were effected firmer rates were paid. Shensi, good small round, part trimming, root of even pinky fracture, 2*s.* per lb.; medium round, half pinky, half grey and dark fracture, 1*s.* 9*d.*; medium to bold round and flat common, 10*d.*; Canton, good small and medium, three-quarter pinky, quarter grey and dark fracture, 1*s.*; small round, 10½*d.*, subject to approval. Two cases of another lot sold at 11*d.* for medium round but stalky, and a case of common small and stalky, half pinky, half grey and dark fracture, "without reserve," 9½*d.* High-dried, good medium flat, half pinky, half grey and dark fracture, 9½*d.* per lb. A parcel of 34 cases (new crop) common rough round; half pinky, half grey and dark fracture sold at 7½*d.* per lb.

SARSAPARILLA.—Grey Jamaica was in better supply, and chiefly sold at: some hesitation at from 1*s.* 7*d.* to 1*s.* 8*d.* per lb. for sound, and 1*s.* 6*d.* to 1*s.* 7*d.* for first class country damaged. Another lot of 13 bales was held for 1*s.* 9*d.* for sound. Native Jamaica was also in demand, the bulk selling at 1*s.* 1*d.* to 1*s.* 2*d.*, and the best lots at 1*s.* 7*d.* Lima-Jamaica sold at 1*s.* for common; good sound was held for 1*s.* 7*d.*, and 1*s.* 5*d.* to 1*s.* 6*d.* for country damaged.

SENNA.—At the auction to-day there was next to no demand, and only a few lots were sold, small to medium greenish leaf realising 1¼*d.* to 1½*d.* per lb.; medium to boldish green, 3*d.* to 4¼*d.*; and small ditto, 2¾*d.*; for fine bold green 6½*d.* was refused, the limit being 7½*d.* Fair pale pods realised, 4½*d.* to 5*d.*; and dark ditto, 1¾*d.*

TONKA BEANS.—Sold at decidedly lower prices, 1*s.* 2*s.* being paid for good frosted Para; two packages of ordinary quality offered without reserve sold at the full figure of 1*s.* per lb.; for another lot of good frosted a bid of 2*s.* 3*d.* was refused, the limit being 2*s.* 4*d.* Fine Angostura were held for 3*s.*

WAX, BEES.—There was practically no demand to day except for Jamaica description, which was all disposed of at from 7*l.* 7*s.* 6*d.* to 7*l.* 15*s.* per cwt., or about 2*s.* 6*d.* higher. Large quantities of Madagascar and Zanzibar were bought in. Three packages from Cape Hatien sold at 6*l.* 17*s.* 6*d.* per cwt.

WAX, JAPANESE, is slightly firmer to arrive, 31/6 per cwt. c.i.f. being wanted for good pale squares. In auction 20 cases were held for 32*s.* 6*d.*

"ERASMIC" WINDOW-DISPLAY.—The idea of filling a window with a particular line of goods as an advertisement proper is almost new to South Africa. Messrs. Heynes, Mathew & Co. have the Adderley Street window of their pharmacy filled with "Erasmic" soap and specialities. The display is uncommon, and has certainly proved a "draw."

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 PHILADELPHIA 1876
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CAPSULED "McK. & R." PILLS

McKesson & Robbins : Originated 1870 : New York.

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1. Because they are prepared from materials of the highest quality only.
2. Because they are made according to the B.P. or other Standard Authorities, and therefore all the combinations are well tried and of recognised value.
3. Because they are taken pleasantly—being tasteless—and readily, being ovoid in form.
4. Because they are not subjected at any stage of preparation to the injurious action of heat.
5. Because the coating of *pure transparent gelatine* preserves the contents from oxidation.
6. Because they are always soluble, and the contents soft and quickly disintegrated.

LIST OF PRINCIPAL CAPSULED PILLS.

Aloes, all the B.P. combinations..... 5 gr.
 Aloes, Dilute (Dr. Hall Dinner Pill) 4 gr.
 Aloes Barb.
 Saponis Pulv.
 Pulv. Ext. Glycyrrh.
 Theriaca, āā..... 1 gr.
 Aloes and Nux Vomica—
 Aloes Soc. 1½ gr.
 Ext. Nucis Vom..... ½ gr.
 Aloin ¼, ½, 1 gr.
 Aloin, various combinations.
 Anti-Dyspepsia (Fothergill)—
 Strychnina ¼ gr.
 Pulv. Piper Nig. 1½ gr.
 Pulv. Ipecac..... 2-3 gr.
 Ext. Gent..... 1 gr.
 Arsenious Acid..... 1-20, 1-50 gr.
 Asafoetida, U.S. and B.P. 5 gr.
 Atropine 1-100, 1-300 gr.
 Blue Pill, B.P. 1, 2, 3, 5 gr.
 Blue Pill, with Colocynth and Hyoscyam... 5 gr.
 Calomel Sulphide 1-10, 1-4, 1-2, 1 gr.
 Calomel, Colocyn., and Hyosc..... 5 gr.
 Calomel Co., B.P. 5 gr.
 Camphor and Hyoscyam..... 2 gr.
 Camphor
 Ext. Hyoscy, āā 1 gr.
 Cannabis Indica 1-4, 1-2 gr.
 Cascara Sagrada..... 3 gr.
 Cathartic Comp., U.S.P.
 Ext. Jalap 1 gr.
 Ext. Coloc. Co. 1-1-3 gr.
 Hyd. Subchlor. 1 gr.
 Gambog. 1-4 gr.
 N.B.—The ready solubility of the "McK. & R." Pills is readily proved by taking a dose of these.
 Colocynth Comp., B.P. 4, 5 gr.
 Colocynth, other combinations.
 Copaiba Compound—
 Cubebæ Pulv. 2 gr.
 Ferri Sulph. Exsic. 1-2 gr.
 Mass. Copalb 1 gr.
 Tereb. Venet..... 1-1-2 gr.
 Corrosive Sublimate..... 1-30, 1-20, 1-10 gr.

Croton Oil..... 1-2 gr.
 Diuretic—
 Ext. Buchu, Potass. Nitrat..... 1 gr.
 Scillæ Pulv. 1-2 gr.
 Emmenagogue—
 Ferr. Sulph. Exsic. 1-1-2 gr.
 Thus, American 1-1-2 gr.
 Aloes Socot. 1-2 gr.
 Ergotin 3 gr.
 N.B.—Each Pill = 30 gr. ergot or 30 ms. fl. extract. This form is more reliable and uniform in effect and more agreeable than the liquid preparations.
 Eucalyptin 2, 3 gr.
 Iodoform and Iodoform with Iron..... 1 gr.
 Ipecac. 1-4, 5 gr.
 Ipecac. Co. 5 gr.
 Ipecac. and Squill, B.P. 5 gr.
 Iron Pill, B.P. Add. 3, 5 gr.
 Iron Arseniate..... 1-8 gr.
 Iron reduced by Hydrogen (Quevenne)..... 1, 4 gr.
 Iron and Quinine Citrate..... 2 gr.
 Laxative, Vegetable—
 Res. Podoph. 1 gr.
 Ext. Hyoscy. 1 gr.
 Ext. Tarax., āā..... 1-4 gr.
 Ext. Coloc. Co. 1 gr.
 Jalapæ
 Res. Leptand. āā..... 1-2 gr.
 Ol. Menth. Pip.
 Mercury, Biniolide 1-16 gr.
 Mercury, Proto-iodide.... 1-20, 1-16, 1-8, 1-4 gr.
 N.B.—Made from the absolutely pure *yellow* impalpable powder, free from mercury and from biniodide.
 So-called "green" proto-iodide contains uncombined mercury.
 Mercury with Chalk 1 gr.
 Morphine Muriate 1-8, 1-4 gr.
 Nitro-Glycerine 1-200, 1-100, 1-50 gr.
 Opium 1 gr.
 Opium and Camphor..... 1 gr.
 Opil Pulv. 1 gr.
 Camphore 2 gr.
 Pepsin, Pure 1 gr.
 Phosphorus 1-100, 1-50, 1-30 gr.

N.B.—In no kind of Pill are the advantages of the "McK. & R." method better exemplified or more in request. No other brand of Phosphorus Pills is equally reliable for the administration of the unoxidised medicament.

Phosphorus and Iron—
 Phosphor. Pur. 1-50 gr.
 Ferr. Redact. 2 gr.
 Phosphorus, Iron, and Quinine—
 Phosphor. Pur. 1-100 gr.
 Ferri Carb. 1 gr.
 Quinine Sulph. 1 gr.
 Phosphorus and Nux Vomica—
 Phosphor. Pur. 1-50 gr.
 Ext. Nucis Vom..... 1-4 gr.
 Phosphorus and Quinine—
 Phosphor. Pur. 1-50 gr.
 Quinine Sulph. 1 gr.
 Phosphorus and Valerianate of Zinc—
 Phosphor. Pur. 1-50 gr.
 Ziuci Valer. 1 gr.
 Picrotoxin 1-80 gr.
 Podophyllin 1-8, 1-4, 1-2 gr.
 Quinine, Bisulphate 1-4, 1-2, 1, 2, 3, 4, 5 gr.
 Quinine, Sulphate 1-4, 1-2, 1, 2, 3, 4, 5 gr.
 Quinine Co. (Anti-Malarial).
 Largely prescribed in America with excellent results.
 Rhubarb Comp., B.P. 5 gr.
 Rhubarb with Blue Pill 5 gr.
 Salicylic Acid 2, 5 gr.
 Soap Comp., B.P. 5 gr.
 Squill Comp., B.P. 5 gr.
 Strophanthus 1-20, 1-4 gr.
 Strychnine 1-50 gr.
 Tonic Laxative (Fothergill)—
 Quinine Sulph. 2-3 gr.
 Strychn. 1-30 gr.
 Ferri Redact.
 Ext. Bellad. āā 1-4 gr.
 Valerianates, Iron, Quinine, and Zinc.
 Warburg's Tincture and the same without Aloes.
 Each Pill = 1 fl. drin. of the Tincture.
 Zinc Phosphide 1-4, 1-2 gr.
 Zinc Valerianate 1 gr.

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Especially adapted for internal use. Their introduction marks a progressive step towards a more extended use of chemically pure medicinal agents.

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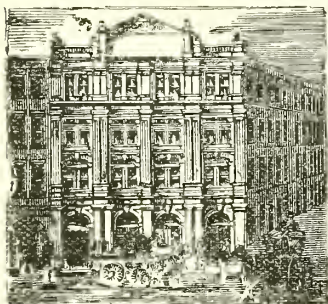
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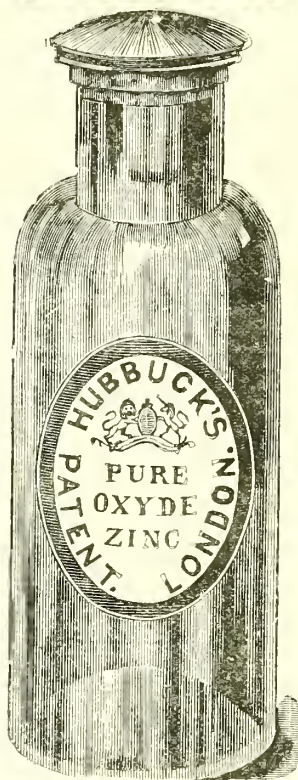
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LIQUIDUM P.B., 1898.

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"The sample was odourless, colourless, tasteless, and non-fluorescent. It was free from sulphur compounds, and answered the stringent requirements of the New British Pharmacopœia. The specific gravity at 60° F. was 0.8832. For all practical purposes I am of opinion that this is sufficiently near to the B.P. limit of 0.885, especially as it has been shown that a higher gravity gives a less pure product."

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SCOTTISH ACID & ALKALI CO. (LIMITED),

Mr. R. H. STEEDMAN, Managing Director.

MANUFACTURERS OF

RESUBLIMED IODINE,
PURE IODIDES of POTASSIUM & SODIUM,
IODOFORM,
Commercial Sulphuric Acid.

Registered Office—188 ST. VINCENT STREET, GLASGOW.

Works—Longford Chemical Works, KILWINNING,
AYRSHIRE.

Sole Agents—KIRKPATRICK, BARR & GUTHRIE, 4 Cullum
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Special Quotations on Application.

MAGNESIA

(Pattinson's)

CARBONATE, CALCINED, AND FLUID.

THE WASHINGTON CHEMICAL CO., LIM., WASHINGTON, COUNTY DURHAM, ENGLAND.

London Agents—Messrs. CLIFFORD CHRISTOPHERSON & CO., 21 Mincing Lane, London, E.C. ^[1]

ESCHMANN BROS. & WALSH, LONDON,

INVENTORS AND MANUFACTURERS OF THE

SOFT SILK FLEXIBLE CATHETER, GUARANTEED WITH WOVEN EYES.

To be had of all Surgical
Instrument Makers
and Wholesale Houses.



To be had of all Surgical
Instrument Makers
and Wholesale Houses.

THE ORIGINAL MAKERS OF TASTELESS PILLS.



COX'S TASTELESS PILLS

TINTED ANY COLOR. ROUND OR OVAL. PEARL OR GELATINE COATED.

J. ROBBINS & CO. 189 WARDOUR ST. W. OXFORD ST. W.

METHYLENE.
Obtained by the action of Metallic Zinc on Chloroform and Alcohol.
Discovered to be a general Anæsthetic by Sir BENJAMIN W. RICHARDSON in 1867.
1 lb. Stoppered Bottle, 12s.; 1 lb. 6s. 6d.; 4 oz., 8s. 6d.; 2 oz., 2s.

COMPOUND ANÆSTHETIC ETHER,
For producing Local Anæsthesia.
In 4 oz., 10 oz., and 20 oz. Stoppered Bottles, 2s., 4s., and 7s.

OZONIC ETHER,
In 2 oz., 4 oz., 8 oz., and 16 oz. Stoppered Bottles, 2s., 4s. 6d., 7s., and 12s.

PEROXIDE OF HYDROGEN,
First introduced as a Medicine by Sir BENJAMIN W. RICHARDSON.

ETHYLATE OF SODIUM
(Sir BENJAMIN W. RICHARDSON'S Formula), for removing Nævi, &c.
In 1 oz. and 1 oz. Bottles, with elongated Stopper for applying the Caustic, 2s. 6d. and 4s.

STYPTIC COLLOID,
For promoting the Healing of Wounds by the first intention. In 2 oz. and 4 oz. Bottles, with Brush, 2s. 6d. and 4s. 6d.; 16 oz., 12s.

CHARCOAL CAPSULES,
Containing Pure Vegetable Ivory Charcoal. In Boxes, 2s. 6d. each.

A First-rate Line.

The "GIANT" Remedy,

BOX'S PILLS

Re-christened by the Americans

"THE GREAT ENGLISH REMEDY,"

Grapple with and triumph over disease with perfect ease.

Price 1/1½, 2/9, 4/6, 11/-, and £1 1s. per box.

PREPARED BY
W. H. BOX, 161 KING ST., PLYMOUTH.

LOFTHOUSE & SALTMER,
MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUG MERCHANTS, HULL.

We invite the Trade to apply for the Agency for

LOSALL'S
CHALYBEATE SULPHUR
SALT.

(Registered)



Put up in enamelled Tins, yellow ground and black lettering.
Leaves a clear Net Profit of over 70% on Lowest Net Trade Prices, 3/6 and 7/- dozen, and is easier to sell and more satisfactory to push than ordinary Health Salts, because of its superior Medicinal Properties.
LONDON AGENTS—F. NEWBERRY & SONS.

An Unique and Capital Selling Line.

A sure preventive of BILIOUSNESS, RHEUMATISM, ECZEMA, and all Blood and Skin Diseases.
Retailed at face value, 6d. and 1/- Tins. On the P.A.T.A. List, each Agent also personally undertaking not to retail below face value.

SELLS READILY.
Neat Enamelled Metal Show Cards and also Large Posters supplied gratis.

POST'S 'C.B.Q.'

THE MOST EFFECTIVE CURE FOR
RHEUMATISM, GOUT, SCIATICA, NEURALGIA, LUMBAGO, and all URIC ACID Troubles.

Contains no COLCHICUM, CALOMEL, or MERCURY.

In Tablets 2/9, and 4/6 per Bottle.

LINIMENT, Nos. 1 and 2, 4/6 per bottle, for external application only.
LIVER PILLS, 1/1½ per Box.

Our high-class preparations afford very remunerative profits to Retailers. REVISED RATES. Liberal supplies of Advertising Matter, with Dummy Packages, &c., supplied to the Trade gratis on application. Correspondence invited.

For terms on quantities of 1/2-dozen and upwards, and other advantages, address the Manufacturers—

A. M. POST, LTD., 96 & 98 LEADENHALL ST., E.C.

MRS. WINSLOW'S SOOTHING SYRUP FOR CHILDREN TEETHING.

Greatly facilitates the process of Teething, by softening the Gums, reducing all Inflammation; will allay
ALL PAIN and spasmodic action, and is

SURE TO REGULATE THE BOWELS.

Depend upon it, Mothers, it will give rest to yourselves and

RELIEF & HEALTH TO YOUR INFANTS.

Mrs. WINSLOW'S SOOTHING SYRUP

Has been used for over Fifty Years by millions of Mothers for their children while Teething with perfect success.
It soothes the child, softens the gums, allays all pain, cures wind colic, and is the best remedy for diarrhoea.

RETAILED BY CHEMISTS ONLY.

Wholesale from **THE ANGLO-AMERICAN DRUG COMPANY (Limited).**
33 Farringdon Road, London.

Chemists Will Kindly Note

That our well-known and highly approved

"SNOWDRIFT" PETROLEUM JELLIES

Conform absolutely to the requirements
of the 1898 B.P. All our preparations
are of guaranteed high quality and give
unqualified satisfaction wherever used.

Samples will be sent if requested.

SNOWDON, SONS & CO., LTD.,
MILLWALL, LONDON, E.

Telegrams—"Snowdrift London." ABC Code used.
Telephone No. 127, Eastern. 4th Edition.

JUST A WORD WITH YOU!

Have you a Handbill for Summer Specialities?
If not, write to us for a sample and price. We
have something good in this line.

We have also some beautiful designs in
LEMONADE POWDER ENVELOPES
(Litho'd in three colours), which will materially
assist in selling.

SPECIAL:

KHAKI CORN CURE

HANDBILLS and POSTERS.

SYPHON BOOKS.

EFFERVESCENT SALINE WRAPPERS.

CORN PLASTER ENVELOPES.

SULPHUR TABLET CASES.

BLOOD PURIFIER CASES.

LEMONADE CRYSTAL CASES.

ALL SPECIALLY DESIGNED FOR THIS SEASON.

Send for Sample of New Almanac for 1900.

HARRISON & WAIDE,
Printers and Publishers,
DARLINGTON ST., KIRKSTALL RD., LEEDS

SEND THREE STAMPS FOR SAMPLES.

HIGHEST AWARD, CHICAGO, 1893.

ALOIN,

THE ACTIVE PRINCIPLE OF ALOES.

MANUFACTURED BY THE DISCOVERERS—

T. & H. SMITH & CO., EDINBURGH AND LONDON.

"The uniformity in strength of Aloin, the smallness of its dose and the certainty of its action, should commend it to the favourable consideration of all medical practitioners."—*Vide* Dr. Wm. Craig's investigations respecting our Aloin, published in the *Edinburgh Medical Journal* for May, 1875.

Edinburgh Address—19 Duke Street. London Address—12 Worship Street, E.C.

Telegraphic Address—"MECONIC EDINBURGH."

Telegraphic Address—"MECONIC LONDON."

Glasgow Address—205 HOPE STREET.

Telegraphic Address—"MECONIC GLASGOW."

United States Agency—GUSTAV MARTIN, 38 PEARL STREET, BOSTON.

[3]

THOMAS TYRER & CO., LIMITED,

Stirling Chemical Works, Stratford, London, E.

PHOSPHORIC ACIDS & HYPOPHOSPHITES,

"STERLING BRAND"

CHEMICAL FOOD AND HYPOPHOSPHOROUS ACID,
Hydrogen Peroxide and Pure Acids, Bismuth, Mercurial and Iron Salts,
Granular and Scale Preparations, Ethers, Essences, Spirits (in Bond).

C. F. BOEHRINGER & SOHNE,

WALDHOF, near MANNHEIM.

MANUFACTURERS OF

B. & S. BRAND

COCAINE

B. & S. BRAND

SULPHATE OF QUININE, and all other CINCCHONA PREPARATIONS.

ALSO OF
ACETANILID, CAFFEINE, CHLORAL HYDRAT, CODEINE & ITS SALTS, CUMARIN, GALLIC ACID,

GLYCERINE, HELIOTROPIN, PHENACETIN, PYROGALLIC ACID,

SALICYLIC ACID & SALICYLATES, STRYCHNINE, TERPIN HYDRAT, &c.

STOCKS KEPT IN LONDON AND GLASGOW.

Agents for England and Ireland—Messrs. DOMEIER & CO., 13 St. Mary-at-Hill, London, E.C.

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MEDICINAL PRODUCTS OF RENOWN.

DR. KNOBB'S ANTIPYRIN, "LION BRAND."—Official in B.P. Addendum of 1890 and B.P. of 1898.

MIGRAININE.—In Migraine and Nervous Headaches.

LYSIDINE.—Excellent Solvent for Uric Acid in Gouty Complaints.

ARGONIN.—Specific in Gonorrhœa, a mild non-irritating Silver Preparation.

DERMATOL.—A true substitute for Iodoform; odourless and free from irritation.

ORTHOFORM.—A local Analgesic for Painful Wounds, Burns, Ulcers, Cracks in the Nipples; absolutely non-poisonous, energetically antiseptic. For internal and external use.

DR. KOCH'S NEW TUBERCULINE.—Always fresh and of standard strength.

PROF. BEHRING'S DIPHTHERIA REMEDY.—Always fresh and of standard strength.

FORMALDEHYDE, NUTROSE, BENZOSOL, &c.

NIRVANINE.—A soluble Anæsthetic; reliable, antiseptic, and free from toxic effects.

For further information, samples, literature, &c. (free of charge to the Medical Profession), apply to the

FARBWERKE VORM. MEISTER, LUCIUS & BRÜNING, 51 ST. MARK LANE, LONDON, E.C.

KILNER'S

"POISON-STORING"

BOTTLES.

ROUND SHAPE, FLUTED, WITH PLAIN SPACE FOR LABEL,
NARROW AND WIDE MOUTHS.

Made in conformity with the views of the leading Wholesale Druggists to meet the requirements of the New Poisons Regulations.—"A bottle or vessel rendered distinguishable by touch from the bottles or vessels in which ordinary articles are kept in the same warehouse, shop, or dispensary."



FRONT
(showing space for Label).

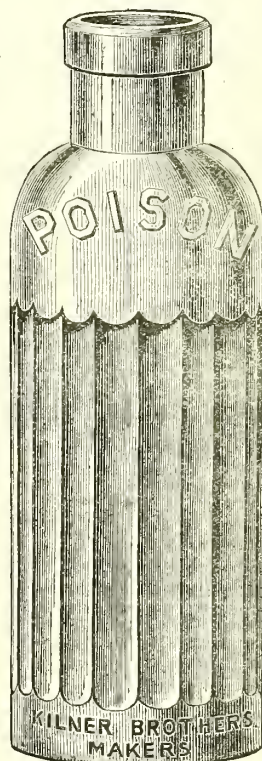
The Chemist and Druggist, April 22, 1899, writes:—

"POISON-STORING BOTTLES.

"WE thought it a difficult matter to get something new in poison-bottles, and probably it is, but Messrs. Kilner Brothers, King's Cross, N., have hit upon something so novel, and yet so familiar, as to suggest that success lies in simplicity. They have produced a blue fluted bottle in which the fluting is concave, not convex as hitherto, the result being greater distinction to touch. Another new departure in the bottle is that it is fluted all round except on the upper half of the front where the label should be."

The British Medical Journal, Sept. 29, 1899, writes:—

"THE poison-bottle in general use is fluted or ribbed, and those used for dispensing are of some distinctive shape or colour. Messrs. Kilner Brothers, King's Cross, London, N., have devised a new poisons-storing bottle—a blue fluted bottle in which the fluting is concave (not convex, as hitherto), a greater distinction to touch being thus obtained."



BACK.

• • • MANUFACTURED ONLY BY • • •

KILNER BROTHERS,

WORKS
THORNHILL LEES, AND CONISBORO', YORKSHIRE.

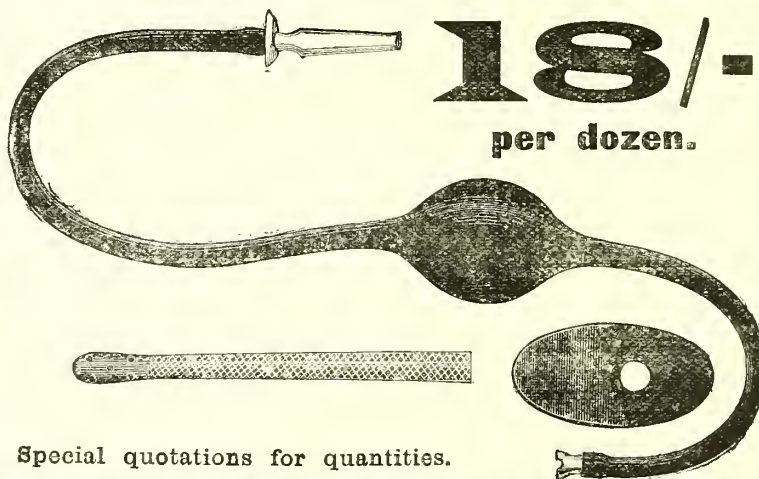
King's Cross, London.

SOME LINES.

CARRIAGE PAID.

Notwithstanding the recent advance I am still able to quote India-Rubber Goods at reduced prices, **CARRIAGE PAID.** This is a full sized Black Enema, Highly Polished and Guaranteed for Two Years, each in box complete, with Vagina Pipe and Shield.

Quarterly
Accounts can
be
opened on
giving
satisfactory
references.



Complete
PRICE LIST
of
DRUGGISTS'
SUNDRIES
upon
application.

Special quotations for quantities.

EDWARD WOOLF, ST. GEORGE'S CRESCENT, BIRMINGHAM.

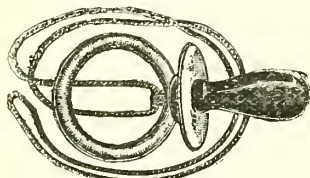
Telegraphic Address—"SOOTHERS BIRMINGHAM."

ORDERED TO THE FRONT.

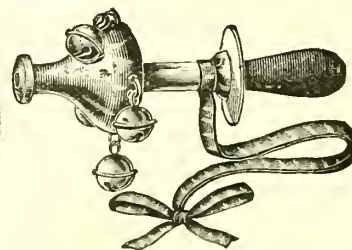
HOLDFAST PACIFIERS AND BOTTLE UNIONS.

NO MORE CHILDREN CHOKED.

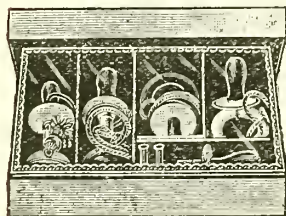
REGISTERED TRADE MARK.



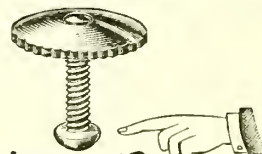
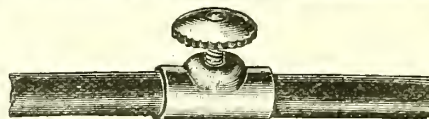
73 B. 5p. 1d. Line.
Carded 1 dozen.



106 B. 2/- Line. Trumpet and Bells.
Best White Metal each in a G.T. Box.

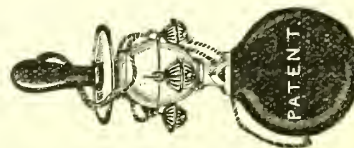


106 B. 2/6 Line. G.T. Box.
Contains Best Pacifiers and
Bottle Unions.



LOOSE CAP

107 B. 1d. Line Patent Food Regulator. 1 dozen cards.



67 B. 1/- Line.
Ball, Whistle, and Bells, each in a Box.

MORE THAN ONE HUNDRED LINES, from 1d. to 2s. 6d.

The advantage of the Holdfast Pacifier and Bottle Unions is that they cannot be pulled apart, and the Food Regulators cannot possibly be displaced, and having a loose cap will not cut the tube.

Send P.O. for 5s. or 10s. and I will forward you choice selection, post free.

PATENTEE AND MANUFACTURER—

A. S. CARTWRIGHT, 75 FORD STREET, BIRMINGHAM.

HOCKLEY,

MANUFACTURERS' STOCK OF DISPENSING BOTTLES WITH ROUNDED EDGES.

Plain as Fig. 1, graduated as Fig. 2, or marked on the *sides*, if preferred.

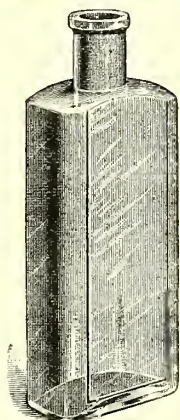


Fig. 1.

3	4	6	8	10	12	ounces.
423	720	969	1,232	521	521	gross.
7/6	7/6	8/6	8/6	12/-	13/-	per gross.

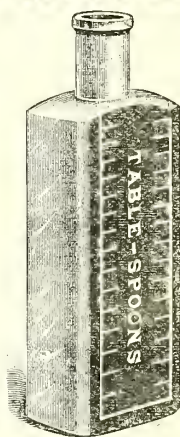


Fig. 2.

CONDITIONS OF SALE,

From which no deviation can be made.

Carriage not paid. Not responsible for breakage. Orders executed in rotation. Customer's name **cannot** be branded on these. Smallest quantity supplied, 6 gross one size or assorted. Crates charged 1/6 each, and allowed in full if returned; half allowed if kept. Prices are net. Cheque or approved references required when no account is opened.

We hold a stock of over 2,000 varieties of Bottles, and shall be glad to send samples and prices on application.

CORKS for ABOVE.

We have just received a Special Consignment of good, sound, reliable Corks suitable for above Bottles, and will send a sample 6-gross Bag Post Free anywhere in the United Kingdom for

Postal Order for 4/-. Simply say:

"6 gross Special Corks post free, 4/- enclosed."



AYERTON & SAUNDERS,


34 Hanover St., LIVERPOOL.

RENDELL'S

"WIFE'S FRIEND" SOLUBLE QUININE PESSARIES.



THE WORLD-WIDE REPUTATION that these Pessaries have obtained since their invention by W. J. Rendell in 1885 has induced unscrupulous persons to place upon the market worthless and injurious compounds, with colourable imitations of W. J. Rendell's labels. To distinguish the genuine Pessaries from these fraudulent concoctions, see that the Registered Trade Mark and Number, in **RED INK**, are upon each box thus:—

Registered
Trade Mark 
without which
none are genuine.
No. 182,688.

W. J. Rendell

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

IMPORTANT NOTICE AND CAUTION.

Several Injunctions in the High Court of Justice having already been obtained against "Infringers" (reports of which have appeared in "THE CHEMIST AND DRUGGIST," the most recent cases being March 19, 1898, and January 19, 1899), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of "W. J. RENDELL," "RENDELL," or any colourable imitation thereof, in connection with Pessaries NOT manufactured by

W. J. RENDELL,

Inventor and Sole Maker of the "WIFE'S FRIEND" SOLUBLE PESSARY,

15 CHADWELL STREET, CLERKENWELL, LONDON, E.C.

IMPORTANT NOTICE.

J. H. HAYWOOD is pleased to inform his old friends and new patrons that he has REMOVED his LONDON DEPÔT to Larger Premises, situated at

16 SILVER STREET, WOOD STREET, E.C.

Where will be held a larger Stock for the convenience of the Trade.

THREE GREAT LEADING LINES.

SEAMLESS ELASTIC STOCKINGS, made in one piece without seam. Stocked in all the usual sizes.

PREMIER THREAD ELASTIC HOSIERY, made from a new material, soft, with the appearance of **SILK**.

KHAKI TRUSSES. Superior finish, shaped springs, good fitting, and supplying a long-felt want, as they **WILL NOT SHOP SOIL**.

Manufacturer of every description of Surgical Appliances, Ladies' and Gents' Belts, Expanding Braces, Suspensory Bandages, Trusses of every known style (Aluminium, Rubber, and Gum Elastic, covered Trusses for Bathing), Elastic and Stockingette Bandages, Washing and Rubbing Gloves, Athletic Appliances for Cricket, Golf, Football, &c., &c.

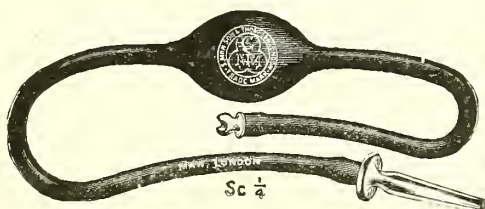
J. H. HAYWOOD, CASTLE GATE, NOTTINGHAM.

LONDON DEPÔT: 16 Silver Street, Wood Street, E.C.

LONDON MANAGER: T. T. SHERBORNE.

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SEAMLESS



S. MAW, SON & THOMPSON,
7-12 Aldersgate Street, LONDON.

ANTISEPTIC DRESSINGS, &c.

					Percentage	In Paper Parcels	In Boxes	In Sealed Tins
						s. d.	s. d.	s. d.
GAUZES (36 in. wide)—Boric ... per dozen yards					25	1 10	2 1	2 4
Carbolized, unbleached	...	...	"	"	5	1 9	2 0	2 3
Iodoform	...	...	"	"	10	4 0	4 3	4 6
Iodoform	...	...	"	"	5	3 2	3 5	3 8
Lister's Cyanide of Mercury and Zinc	...	...	"	"	3	2 4	2 7	2 10
Sal Alembroth	...	...	"	"	1	1 9	2 0	2 3
Salicylic	...	...	"	"	4	2 4	2 7	2 10
Sublimate, Unbleached	...	...	"	"	$\frac{1}{4}$	1 6	1 9	2 0
LINTS —Boric ... per lb.					45	1 6	1 9	2 0
Carbolized	..	...	"	"	5	2 1	2 4	2 7
Cyanide of Mercury and Zinc	...	...	"	"	3	3 4	3 7	3 10
Iodoform	...	...	"	"	10	5 0	5 3	5 6
Sal Alembroth	...	...	"	"	2	2 0	2 5	2 8
Salicylic	...	...	"	"	4	2 4	2 7	2 10
Sublimate	...	...	"	"	$\frac{1}{4}$	2 0	2 3	2 6
WOOLS —Boric ...					45	1 4	1 7	1 10
Carbolized	...	...	"	"	5	1 7	1 10	2 1
Cyanide of Mercury and Zinc	...	...	"	"	3	2 9	3 0	3 3
Iodoform	...	...	"	"	10	4 9	5 0	5 3
Sal Alembroth	...	...	"	"	2	1 8	1 11	2 1
Salicylic	...	...	"	"	4	1 9	2 0	2 3
Sublimate	...	...	"	"	$\frac{1}{4}$	1 6	1 9	2 0

S. MAW, SON & THOMPSON, 7 to 12 Aldersgate Street, LONDON.

"THE LEICESTER"

— TRADE MARK —

POROUS PLASTERS

Of Reliable Strength and Guaranteed Purity
IN RUBBER COMBINATION.

BELLADONNA,

BROWNISH COLOUR, STANDARDISED.

Containing 0.5 per cent. Root Alkaloids.

	Per dozen.	Sizes, 7½ by 5	9 by 6	12 by 7
On Cotton Cloth	...	3/6	5/-	8/-
On Scarlet Felt	...	4/3	6/6	10/-

STRENGTHENING.

	Per dozen.	Sizes, 7½ by 5	9 by 6	12 by 7
On Cotton Cloth	...	2/1	3/6	5/-
On Scarlet Felt	...	3/3	5/4	8/6

CAPSICUM.

Same prices as Strengthening Plasters.

Name and Address of any Customer printed without extra charge on lots of one gross, which may be assorted.

SUBJECT TO USUAL DISCOUNT.

A. de St. DALMAS & Co.

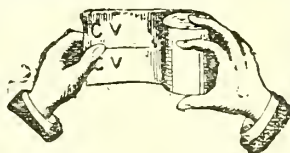
(Formerly MOOR—Established 1823),

LEICESTER.

Contractors to Her Majesty's Government.

WARNING.

Owing to the success of my "EUREKA" CREPE VELPEAU RUBBERLESS POROUS BANDAGES, the trade are being offered spurious and foreign made imitations. The only way to avoid being thus victimised is to distinctly ask for the "EUREKA" make. If you have been induced to purchase any of these imitations, purporting to be mine, return them at once, and see that the correct ones bear my trade mark, "EUREKA," Regtd. No. 228376.

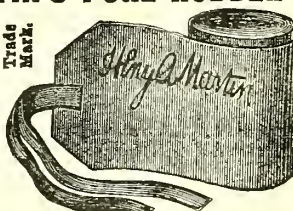


Price per doz. Rolls, 2 in. 2½ in. 3 in. 8 in. 11 in.
2nd quality 12/- 15/- 18/- 36/- 54/-

VINCENT WOOD, 4 ALBION PLACE, BLACKFRIARS BRIDGE, S.E.

DR. MARTIN'S PURE RUBBER BANDAGES

For
Varicose
Veins, Ulcers,
Eczema of the
Leg, Swollen
and Weak
Joints.



CAUTION.—Please order *Genuine Martin's Bandages*, each being stamped with Dr. Martin's signature. All others are *Spurious Imitations*.

Complete Price List Trade Discount, and Dr. Martin's Pamphlet post free.

No.	PRICES.	Feet	Inches	Each
3A.	Thin, for ankle, elbow, wrist, and forearm	3	2½	3/5
3.	Thick	3	2½	4/-
1B.	Thin, for leg below knee	10½	3	5/5
1A.	Thick	10½	3	7/5
8.	Thin, for leg and knee	14	3	7/5
7.	Thick	14	3	9/5
8B.	Thin, for leg and thigh	21	3	10/5
8A.	Thick	21	3	13/5

Sole Agents—KROHNE & SESEMANN, SURGICAL INSTRUMENT MAKERS
87 DUKE STREET, MANCHESTER SQUARE, LONDON.

NEWSHOLME'S POCKET SPITTOON

Registered No. 349532.

To Prevent the Spread of
Tuberculosis, &c.

This Pocket Spittoon has been brought out on the lines suggested by the Medical Officer of Health for the City of Sheffield.

Made of dark blue glass, having closely-fitting nickel-plated lid.—Just fits the handkerchief pocket, and may be readily emptied and sterilised.

Price 1/6 each. 16/- per dozen.
In gross lots, 15/- per dozen.
Carriage paid on 1 dozen and upwards.

Sole Maker: G. T. W. NEWSHOLME,
Manufacturing Pharmaceutical Chemist,
27 HIGH STREET, SHEFFIELD.



"CLEAR LETTER"
MEDICINE TUMBLERS.

SAMPLES POST FREE

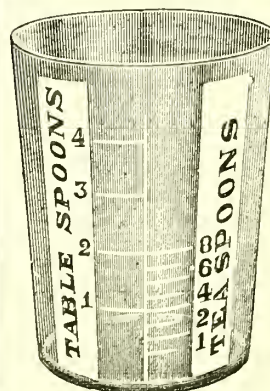
upon receipt of Trade Card.

F. H. TAYLOR & CO.

Errol St., LONDON, E.C.

(Established 1875),

Manufacturers of GRADUATED GLASS MEASURES of every description.



SOLUBLE WAND'S PEARL COATED
FULL STRENGTH PILLS
 ANY COLOR SWEET COATED WHEN DESIRED.

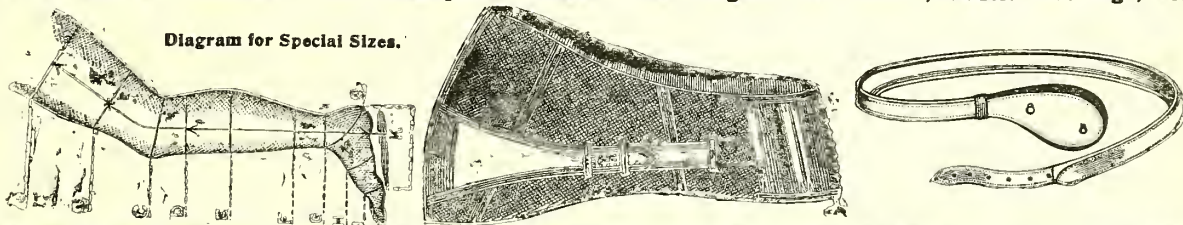
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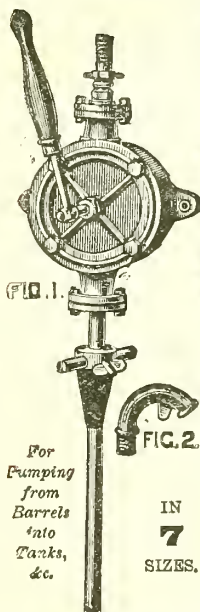
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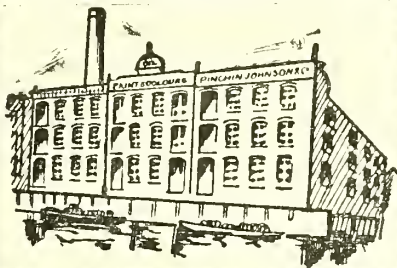
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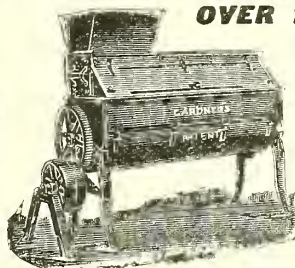
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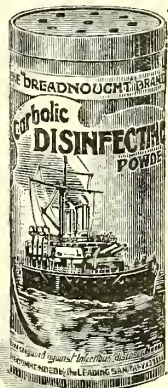
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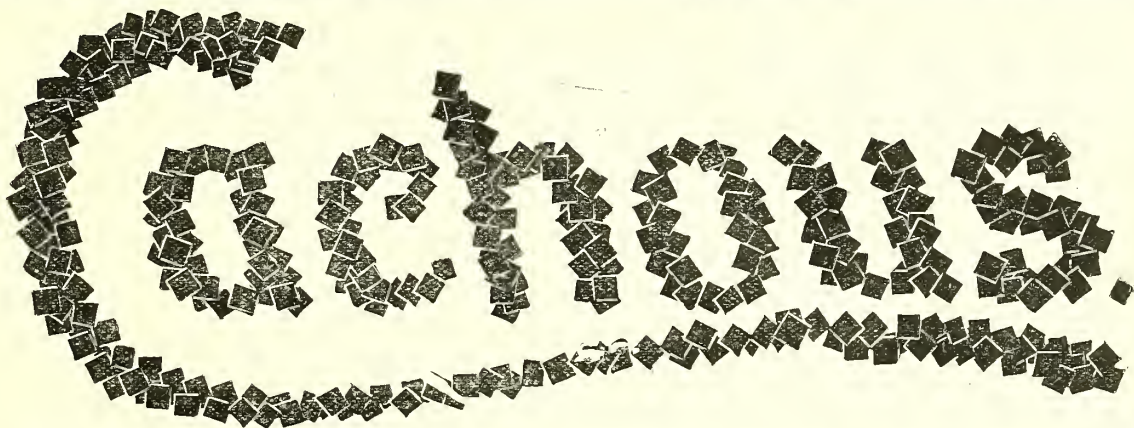
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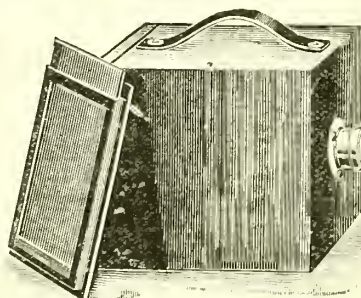
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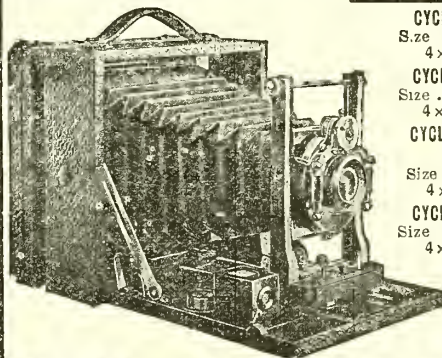
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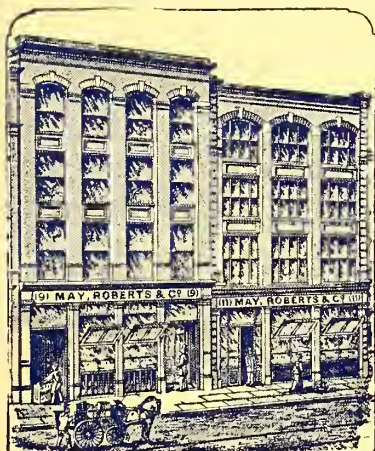
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